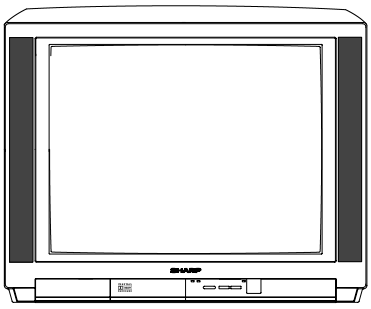
SHARP®

SERVICE MANUAL

SESG70GS62S00
Issued: 30th May '01

GA-10 CHASSIS

PAL BG SYSTEM COLOUR TELEVISION



MODEL
70GS-62S DE / GG / IT

In the interests of user safety (required by safety regulations in some countries) the set should restored to its original condition and only parts identical to those specified should be used.

CONTENTS

ELECTRICAL SPECIFICATION.....3
IMPORTANT SERVICE NOTES.....4
CONTROL & TERMINALS.....5
ADJUSTMENTS PROCEDURES.....7
STEREO LED FLASHING CODES.....11
PRINTED WIRING BOARDS.....12
CHASSIS LAYOUT.....16
COMPONENT LOCATION TABLES.....16
ICs ADITIONAL INFORMATION.....21
SCHEMATIC DIAGRAM.....31
PARTS LISTING.....38
PACKING OF THE SET & ACCESSORIES....46

SHARP CORPORATION

This document has been published to be used for after sales service only.

SERVICE MANUAL UPDATE LOG SHEET

Technical Report No. Technical Bulletin No.	Cause / Solution	Part No.	Page No.	Application Data /Serial No.

Use this page to keep any special servicing information as Technical Report (Bulletin), Technical Information, etc.
If only part number changes are required, just change part number directly the part number in the Parts Listing Section.
If you need more information, please refer to the Technical Report (Bulletin).

ELECTRICAL SPECIFICATIONS

•Power Input ..... 220V-240 Volts AC 50Hz

•Power Consumption
Normal Operation 87W
Stand-by Operation 1W

•Audio Power Output Rating (MPO) / Impedance
Internal Left Speaker 10W, 7Ω
Internal Right Speaker 10W, 7Ω

•Speakers
Left / Right ..... 12 x 6cm

•Convergence
Static (Centre) ..... between any two colours
Dynamic ..... after static equals zero

•Focus ..... High Bi-Potential Electrostatic

•Sweep Deflection ..... Magnetic

•Picture Intermediate frequency..... 38.9MHz

•Sound Carrier Trap..... 33.4MHz

•Adjacent Sound Carrier Trap 40.4MHz

•Adjacent Picture Carrier Trap..... 31.9MHz
.

•Aerial Input Impedance
VHF/UHF ..... 75 ohm Unbalanced

•Tuning Ranges..... 48.25 MHz thru 855.25 MHz
VHF: E2-E12 CH
S1-S41 CH (Hiperband)
UHF: E21-E69 CH

•White Level
Set brightness control to get total picture tube cathode current of 600 milliammeter under no signal condition. Maximum necessary correction of each picture tube cathode current to get 8900 degrees K-20 MPCD screen temperature should not exceed 15% of its original value.

X=0.290 **Y=0.300**

Specifications are subject to change without prior notice.

MODEL DESTINATION & DIFFERENCES:

70GS-62SDE: Germany, Austria. Particular Operation Manual.
70GS-62SGG: Greece. No Operation Manual from Factory.
Greek Teletext (NVM: Page 00, Position 95, Value: ~~03~~ → 05).
70GS-62SIT: Italy. Particular Operation Manual.

WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis.
To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

IMPORTANT SERVICING NOTES

Only qualified service personnel are allowed to carry out maintenance and repair of this receiver.

SERVICING OF HIGH VOLTAGE SYSTEM AND CRT

It is important that the static charge is removed from the high voltage system when carrying out work on the receiver. This can be achieved by connecting a 10K resistor (with a suitably insulated lead) from the CRT cavity connector to the CRT ground tag. This must be carried out with the AC supply disconnected from the receiver.

Note the following:

- The CRT in this receiver employs Integral Implosion Protection.
- If the CRT has to be changed it MUST be replaced with the correct type for continued safe working
- DO NOT lift the CRT by its neck.
- When handing the CRT, ensure that shatterproof goggles are worn.
- Ensure that the CRT is discharge before handling.

X-RAY

This receiver is designed to keep any x-ray emission to an absolute minimum. Some fault conditions and servicing procedures may produce potentially hazardous x-ray radiation levels. This is a problem when in close proximity to the receiver for long periods of time. To reduce any risks associated with this, please observe the following precautions:

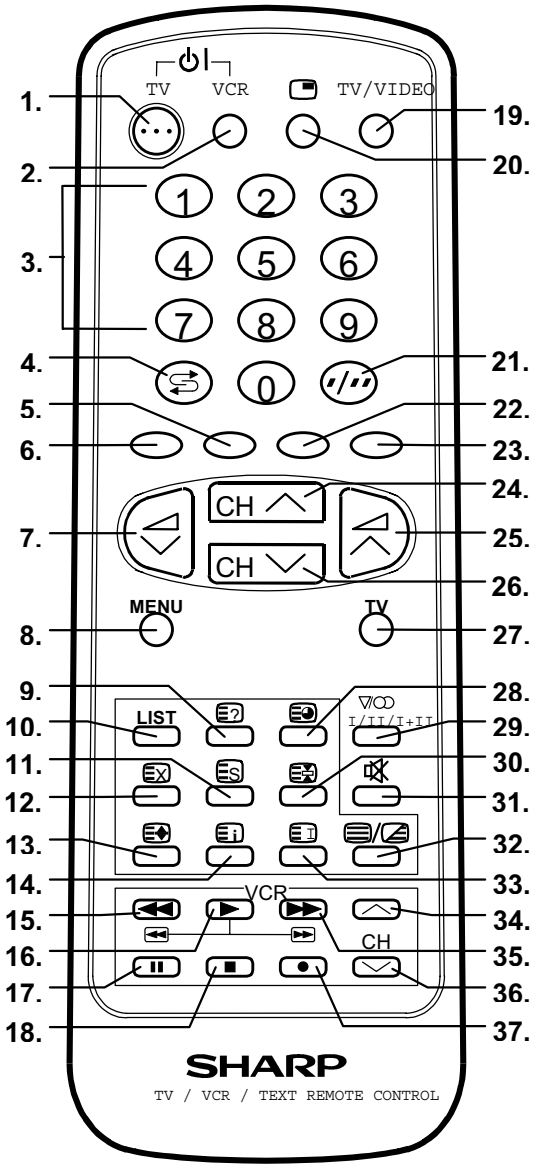
1. When undertaking any servicing on this chassis, DO NOT increase the EHT to more than 29.9 KV, (at a instantaneous beam current of 1300μA).
2. Ensure that during normal operation the EHT does not exceed 27KV±1.5KV (at a beam current of 1000μA). This level has been preset in the factory. Always check that this level has not been exceeded after carrying out any repair on the receiver.
3. DO NOT replace the CRT with any other type than that specified in the parts listing as this may cause excessive x-ray radiation.

BEFORE RETURNING THE RECEIVER TO THE CUSTOMER

In addition to the above checks, the following should also be carried out before returning the receiver to the customer.

1. Inspect all the leads to ensure that they are dressed correctly and that they are not obstructed or pinched by any other parts.
2. Ensure that all protective devices are in good condition. These will include nonmetallic control knobs, insulating fish papers, cabinets backs, compartment covers or shields, mechanical insulators, etc.

REMOTE CONTROL

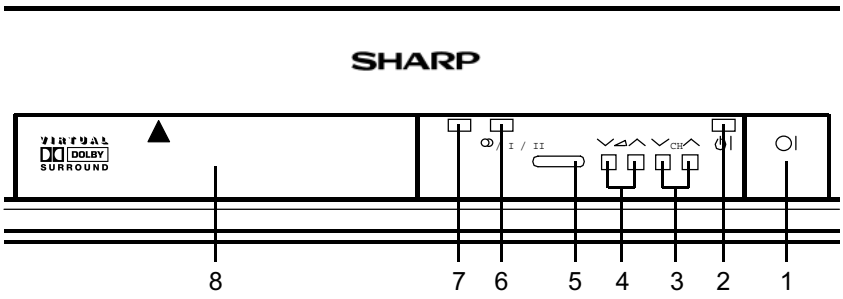


TV	**1.** Stand-by ON/OFF switch (TV)
Video	**2.** Power ON / OFF switch (VCR)
TV	**3.** Digit buttons 0 ~ 9 **4.** Flashback button
Teletext	**5.** Colour button (green) **6.** Colour button (red)
TV	**7.** Volume Down/Cursor control Left **8.** Menu button
Teletext	**9.** Reveal button **10.** List selector **11.** Store button **12.** Cancel button **13.** Top/ Bottom/Full button **14.** Reset button
Video	**15.** Rewind/picture search/reverse **16.** Play button **17.** Pause / Still button **18.** Stop button
TV	**19.** TV / VIDEO selector **20.** Channel call button **21.** Single/Double entry
Teletext	**22.** Colour button (yellow) **23.** Colour button (blue)
TV	**24.** Channel Up/Cursor control Up **25.** Volume Up/Cursor control Right **26.** Channel Down/Cursor control Down **27.** TV button / Subtitle
TV/Teletext	**28.** Time button
TV	**29.** Sound mode selector
Teletext	**30.** Hold button
TV	**31.** Sound Mute button
Teletext	**32.** Text/Mix button **33.** Index button
Video	**34.** Channel Up selector **35.** Fast forward/picture search/forward **36.** Channel Down selector **37.** Record button

CONTROLS & TERMINALS

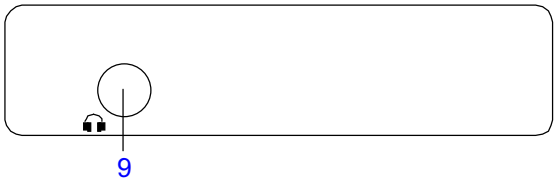
FRONT TV

1. Main Power On/Off Switch
2. Power Indicator
3. Program Selector (UP/DOWN)
4. Volume Buttons (UP/DOWN)
5. Remote Control Sensor
6. Sound Indicator
7. Remote Control Indicator
8. DOOR



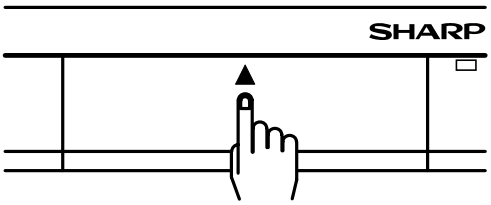
Behind the door

9. Headphone Socket (3.5 mm Ø / 16~600 Ω)



HOW TO OPEN THE DOOR

Press the top of the door, opening it slightly.
Hook your finger inside and pull open.



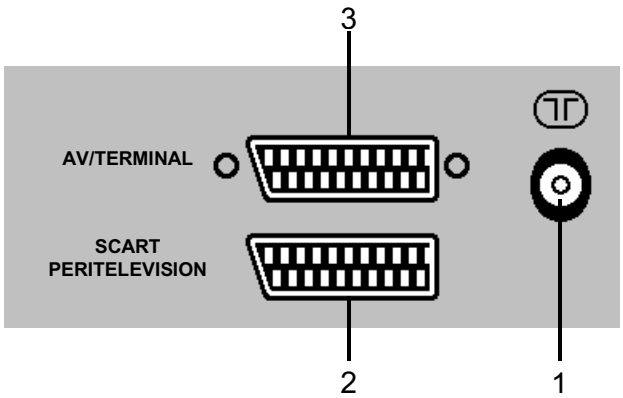
REAR TV

RF Input

1. Antenna terminal

21-pin In/Out

2. 21-pin Euro SCART (RGB)
3. 21-pin Audio/Video (AV-1) With S-Video Input



ADJUSTMENT PROCEDURES

All adjustments to this chassis, except for focus, are carried out in the service mode.

• SERVICE MODE

The service mode is provided to enable the engineer to correctly set up the receiver to the CRT fitted in the set. Note that these adjustments may vary from one receiver to another.

To enter the service mode, carry out the following procedure.

1. Connect a test pattern to the antenna terminal.
2. Tune the receiver to this signal.
3. Turn the receiver off using the mains switch.
4. Press volume down and channel up buttons on the front of the receiver at the same time. See Fig.1.
5. Keeping these buttons pressed, turn the mains on. See Fig.1.
6. When the set starts up it will be in service mode.
7. Release the two buttons.

- Use the channel up and down buttons to move between the options.
- Use the volume control buttons to change the data.
- To store the data, use the stand-by button on the remote control.
- To exit the service mode, turn the receiver off using the mains switch.

When the service mode is entered the following On Screen Display appears

-SERVICE SOFTWARE AND HEXADECIMAL COUNTER DISPLAY:
SW ON XXXX SW OFF XXXX HOURS ON XXXX

The figures displayed in the XXXX locations are hexadecimal representations of the number of times that particular function has been executed. For example if the hexadecimal number displayed after SW ON was 0E4A, this would correspond to the receiver being turned on 3658 times.

Adjustment menu:

The following adjustments can be carried out in the service mode.

- Horizontal Shift
- East West Width
- Pin Phase
- Pin Amp
- Corner Amplitude
- Corner Symmetry
- Vertical Linearity
- Vertical Angle
- Vertical Bow
- Vertical Amplitude
- S Correction
- Vertical Shift
- Red Gain
- Green Gain
- Blue Gain
- Red Cut Off
- Green Cut Off
- Blue Cut Off
- Alter NVM Page
- Alter NVM Position
- Alter NVM Value
- Teletext Mix Mode Contrast
- Teletext Contrast
- OSD Contrast
- DVCO Adjustment (Only PAL)
- DVCO Adjustment (Only NTSC)
- AGC Adjustment
- Auto Installation On/Off

The following geometry adjustments can be carried out. Detailed instructions on how to execute these are given on the following pages

Horizontal	Vertical
• Horizontal Shift	• Vertical Amplitude
• E-W Width	• S Correction
• Pin Phase	• Vertical Shift
• Pin Amp	• Vertical Linearity
• Corner Amplitude	• Vertical Angle
• Corner Symetry	• Vertical Bow

Just in case the TV set requires a full geometries adjustment, please proceed first with Vertical according to the above order, and after that, adjust Horizontal according to the above order.

Horizontal Shift
Adjust the horizontal shift so that the picture is centred.
The effect of this adjustment is shown in figure 2.

- When the volume up button is pressed, the picture moves to the right.
- When the volume down button is pressed, the picture moves to the left.
- Press the stand-by button on the remote control to store.

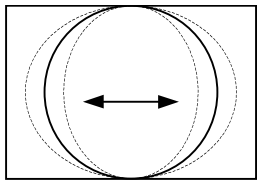


Fig.2

E-W Width
Adjust the E-W Width so that 9% over-scan is achieved.
The effect of this adjustment is shown in figure 3.

- When the volume up button is pressed, horizontal scanning increases.
- When the volume down button is pressed, horizontal scanning decreases.
- Press the stand-by button on the remote control to store.

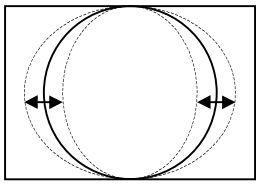


Fig.3

Pin Phase
Adjust the Pin Phase so that the picture is symmetrical top and bottom.
The effect of this adjustment is shown in figure 4.

- When the volume up button is pressed, side pincushion changes.
- When the volume down button is pressed, side pincushion changes.
- Press the stand-by button on the remote control to store.

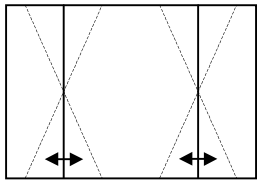


Fig.4

Pin Amp
Adjust the Pin Amplitude so that the picture is centred.
The effect of this adjustment is shown in figure 5.

- When the volume up button is pressed, side pincushion changes from pincushion to barrel shape.
- When the volume down button is pressed, side pincushion changes from barrel shape to pincushion.
- Press the stand-by button on the remote control to store.

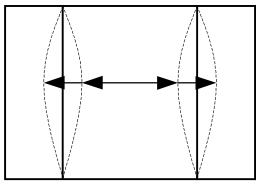


Fig.5

Corner Amplitude
Adjust the Corner Amplitude so that the picture is centred.
The effect of this adjustment is shown in figure 6.
Note: This adjustment affects to upper and lower sides.

- When the volume up button is pressed, side pincushion changes from pincushion to barrel shape.
- When the volume down button is pressed, side pincushion changes from barrel shape to pincushion.
- Press the stand-by button on the remote control to store.

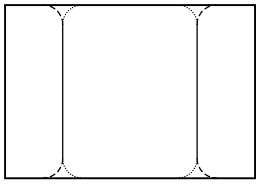


Fig.6

Corner Symmetry

Adjust the Corner Symmetry so that the picture is centred.
The effect of this adjustment is shown in figure 7.
Note: This adjustment affects to upper and lower sides.

- When the volume up button is pressed, side pincushion changes from pincushion to barrel shape.
- When the volume down button is pressed, side pincushion changes from pincushion to barrel shape.
- Press the stand-by button on the remote control to store.

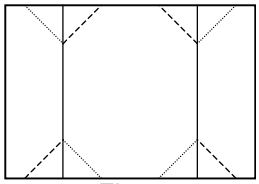


Fig.7

Vertical Linearity

Adjust the Vertical Linearity so that the upper and lower parts of the picture are symmetrical.
The effect of this adjustment is shown in figure 8.

- When the volume up button is pressed, the upper picture scanning decreases and the lower picture scanning increases.
- When the volume down button is pressed, the upper picture scanning increases and the lower picture scanning decreases.
- Press the stand-by button on the remote control to store.

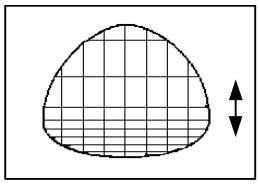


Fig.8

Vertical Angle
Adjust the Vertical Amplitude so that the picture is centred.
The effect of this adjustment is shown in figure 9

- When the volume up button is pressed, the vertical angle changes to right.
- When the volume down button is pressed, the vertical angle changes to left.
- Press the stand-by button on the remote control to store.

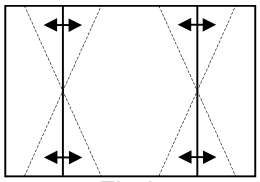


Fig.9

Vertical Bow
Adjust the Vertical Bow so that the picture is centred.
The effect of this adjustment is shown in figure 10

- When the volume up button is pressed, the vertical bow changes to right.
- When the volume down button is pressed, the vertical bow changes to left.
- Press the stand-by button on the remote control to store.

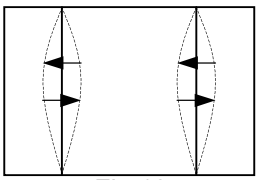


Fig.10

Vertical Amplitude

Adjust the Vertical Amplitude so that the picture is over-scanned.
The effect of this adjustment is shown in figure 11.

- When the volume up button is pressed, the vertical size of the picture decreases.
- When the volume down button is pressed, the vertical size of the picture increases.
- Press the stand-by button on the remote control to store.

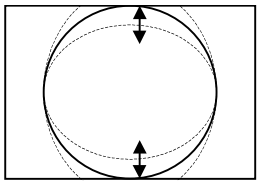


Fig.11

S Correction

Adjust the S Correction so that the picture symmetrical between the top, centre and bottom.
The effect of this adjustment is shown in figure 12.

- When the volume up button is pressed, the top and bottom scanning increases and the centre scanning decreases.

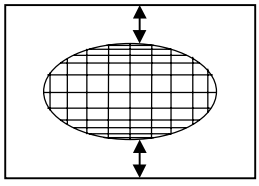


Fig.12

- When the volume down button is pressed the top and bottom scanning decreases and the centre scanning increases.
- Press the stand-by button on the remote control to store.

Vertical Shift

Adjust the Vertical Shift so that the picture is centred.
The effect of this adjustment is shown in figure 13.

- When the volume up button is pressed, the picture moves down.
- When the volume down button is pressed, the picture moves up.
- Press the stand-by button on the remote control to store.

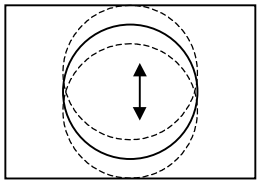


Fig.13

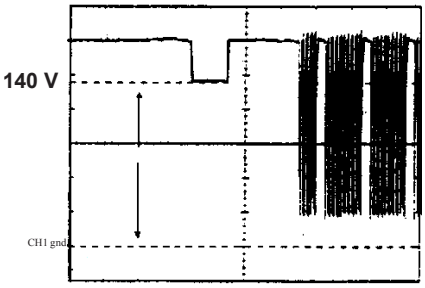
Colour Adjustments

The following adjustments should only be carried out when the CRT IC801 are replaced.

G2, Cut Off and Gain Adjustments

1. Follow the procedure below to set the G2

1.1 Tune the set to the output of a signal generator (cross hatch pattern).
1.2 In the user menu, set contrast to 80/100 and brightness to 40/100.
1.3 Connect the oscilloscope to the red cathode and adjust G2 to read 140V on the sensor pulse as in the drawing:



NOTE:
Oscilloscope should be adjusted for vertical TV field trigger and synchronized with video signal.

2. Follow the procedure below to set the Cut Off.

2.1 Adjust G2.
2.2 Tune a white card.
2.3 Adjust colour to minimum.
2.4 Position colorimeter in the centre of screen.
2.5 Adjust brightness and contrast to obtain a luminance of ≈20 NITS.
2.6 Operate in Service Mode and select location RED CUT OFF, GREEN CUT OFF and BLUE CUT OFF, to obtain colour coordinates:

X=0.290 ± 0.015 Y=0.300 ± 0.015

To increase press volume-up button and to decrease press volume down button.

RED CUT OFF	alter «X» coordinate.
GREEN CUT OFF	alter «Y» coordinate.
BLUE CUT OFF	alter «X» and «Y» coordinate.

3. Follow the procedure below to set the GAIN.

3.1 Using brightness and contrast buttons, select a luminance of ≈120 NITS.
3.2 Operate in Service Mode and select location RED GAIN, GREEN GAIN and BLUE GAIN, to obtain colour coordinates:

X=0.290 ± 0.015 Y=0.300 ± 0.015

To increase press volume-up button and to decrease press volume down button.

RED GAIN alter «X» coordinate.
GREEN GAIN alter «Y» coordinate.
BLUE GAIN alter «X» and «Y» coordinate.

3.3 Exit Service Mode and check colour coordinates «X» and «Y» at 20 and 120 NITS. It may be necessary to repeat procedure 2 and 3 of Colour Adjustments.

Changing NVM Data

To change the data contained within the Non Volatile Memory, it is necessary to first select the page the data is stored in, then the position and finally to change the data itself. The procedure below outlines this process.

1. While on ALTER NVM PAGE, use the volume up/down buttons to change this data (data is shown in hexadecimal format).
2. Press the channel up button and ALTER NVM POSITION appears, use the volume up/down buttons to change this data (data is shown in hexadecimal format).
3. Press the channel up button and ALTER NVM VALUE appears, use the volume up/down buttons to change this data (data is shown in hexadecimal format).

4. Once this data has been set, press the stand-by button to store.
5. If another NVM value has to be changed, use the channel down button to select the page or position and repeat as necessary.

Note:
DO NOT change any NVM data, unless you have been advised to do so by a Sharp representative. If data is incorrectly changed, serious damage may occur to the receiver.

Contrast Adjustments

Three types of contrast levels can be varied as listed below:

- TELETEXT MIX MODE CONTRAST
- TELETEXT CONTRAST
- OSD CONTRAST

Use the volume up/down buttons to adjust to a suitable level, then press the stand-by button to store.

DVCO Adjustment (PAL)
Carry out the DVCO Adjustment (PAL) as shown below:

1. Receive a Phillips pattern signal.
2. While in the DVCO ADJUSTMENT (PAL) menu, press the stand-by button.
3. The adjustment will be carried out automatically and stored.

DVCO Adjustment (NTSC)
No adjustment required.

AGC Adjustment
To correctly align the Automatic Gain Control, follow the procedure outlined below:

1. Tune the set into a pattern generator on CH10.
2. Adjust the signal strength of the pattern generator to 57 dB/uV
3. Enter the service mode.
4. Enter the AGC Adjustment menu.
5. Press the stand-by button on the remote control.
6. The adjustment will be carried out and stored automatically.

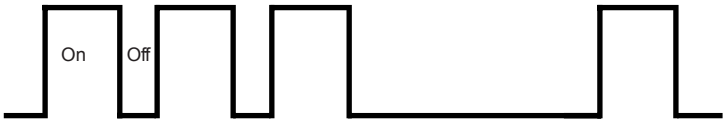
Auto Installation On/Off
To return the receiver to the original Auto Installation mode, using the volume up or down button, set the Auto Installation On/Off to On. This setting is automatically stored and when the receiver is turned on the next time it will start up in Auto Installation mode.

STEREO LED FLASHING CODES.

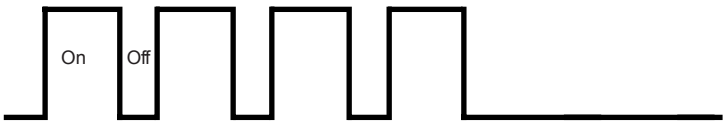
If the TV set does not work and the stereo led is flashing, follow the sequence according to the information below, as a guide to fault finding.

1. **Unable to read or write into NVM:** 66% ON, 33% OFF twice and OFF for a second.

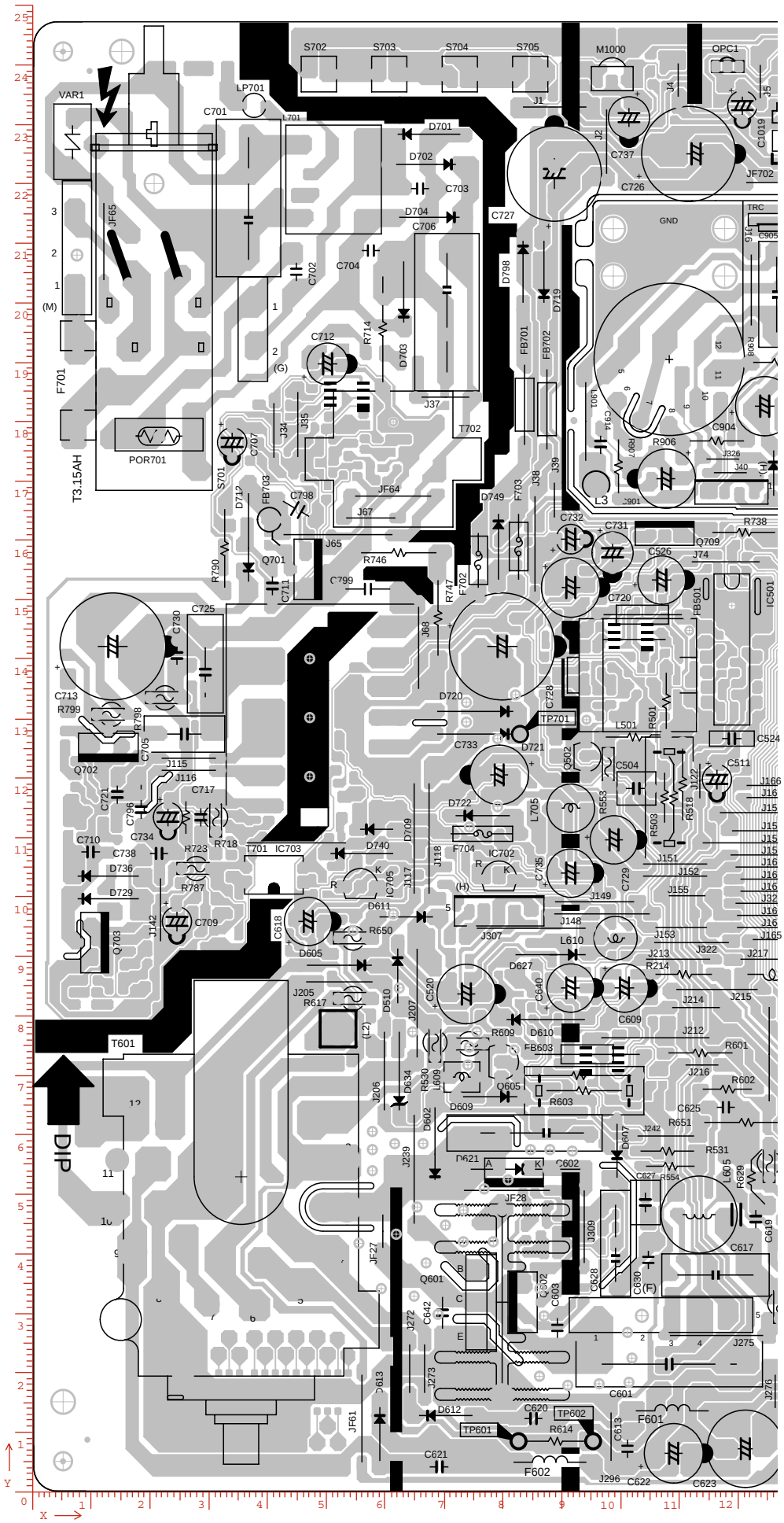
2. **MSP failure:** 66% ON, 33% OFF for three times and OFF for a second.



3. **VCT failure:** 66% ON, 33% OFF for four times and OFF for a second.

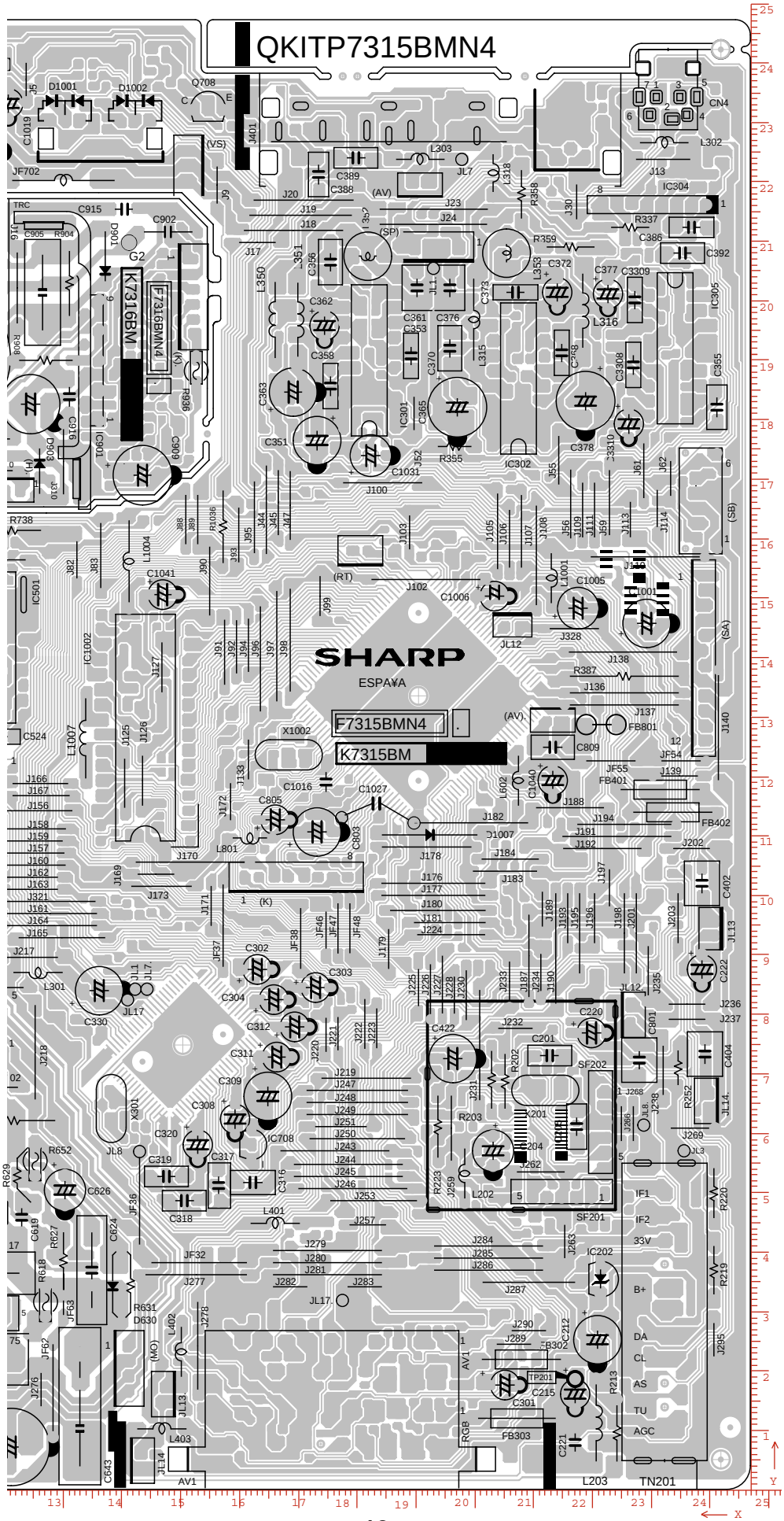


F7315N4. MOTHER UNIT PWB. Component side.



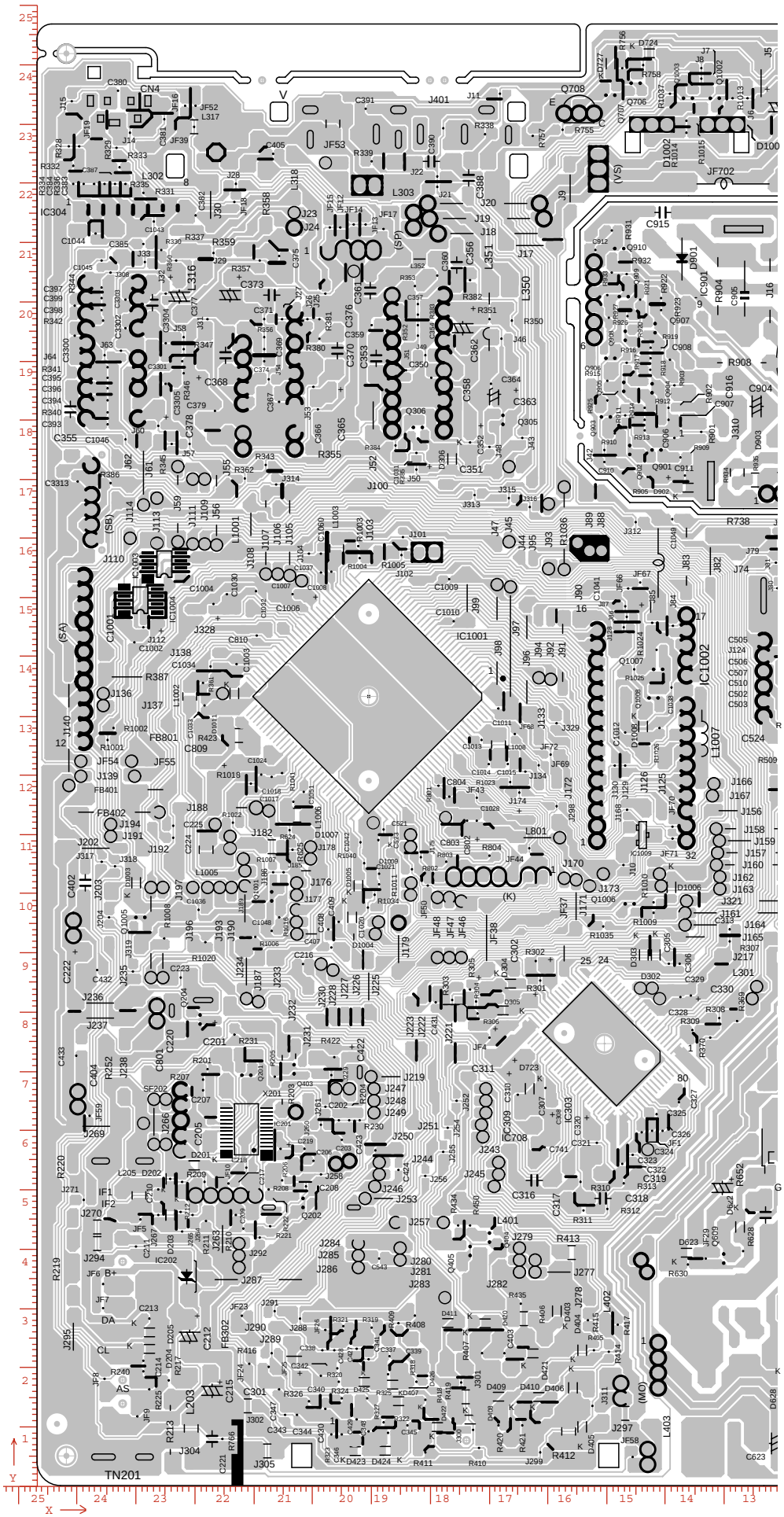
Page 13

F7315N4. MOTHER UNIT PWB. Component side.

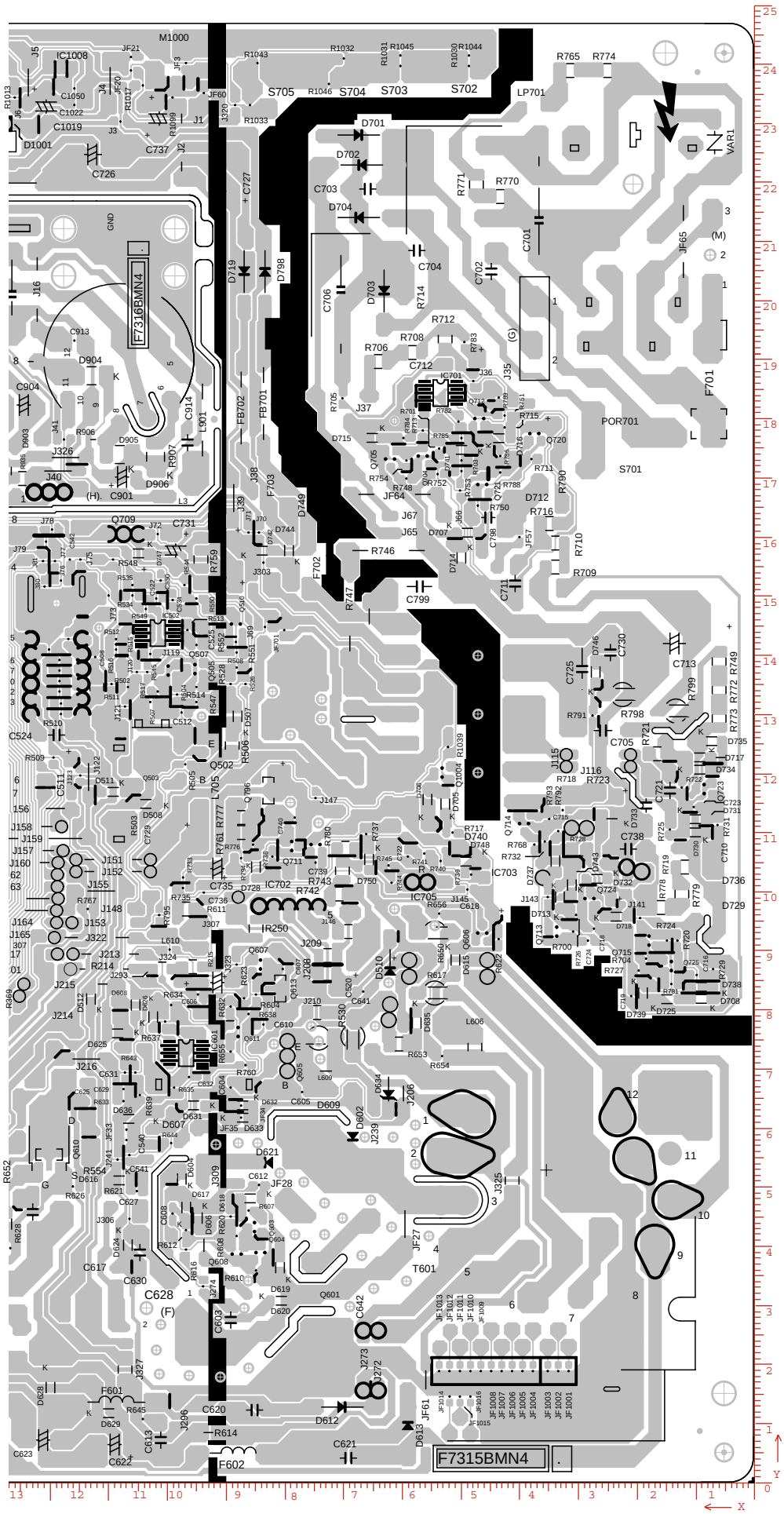


Page 12

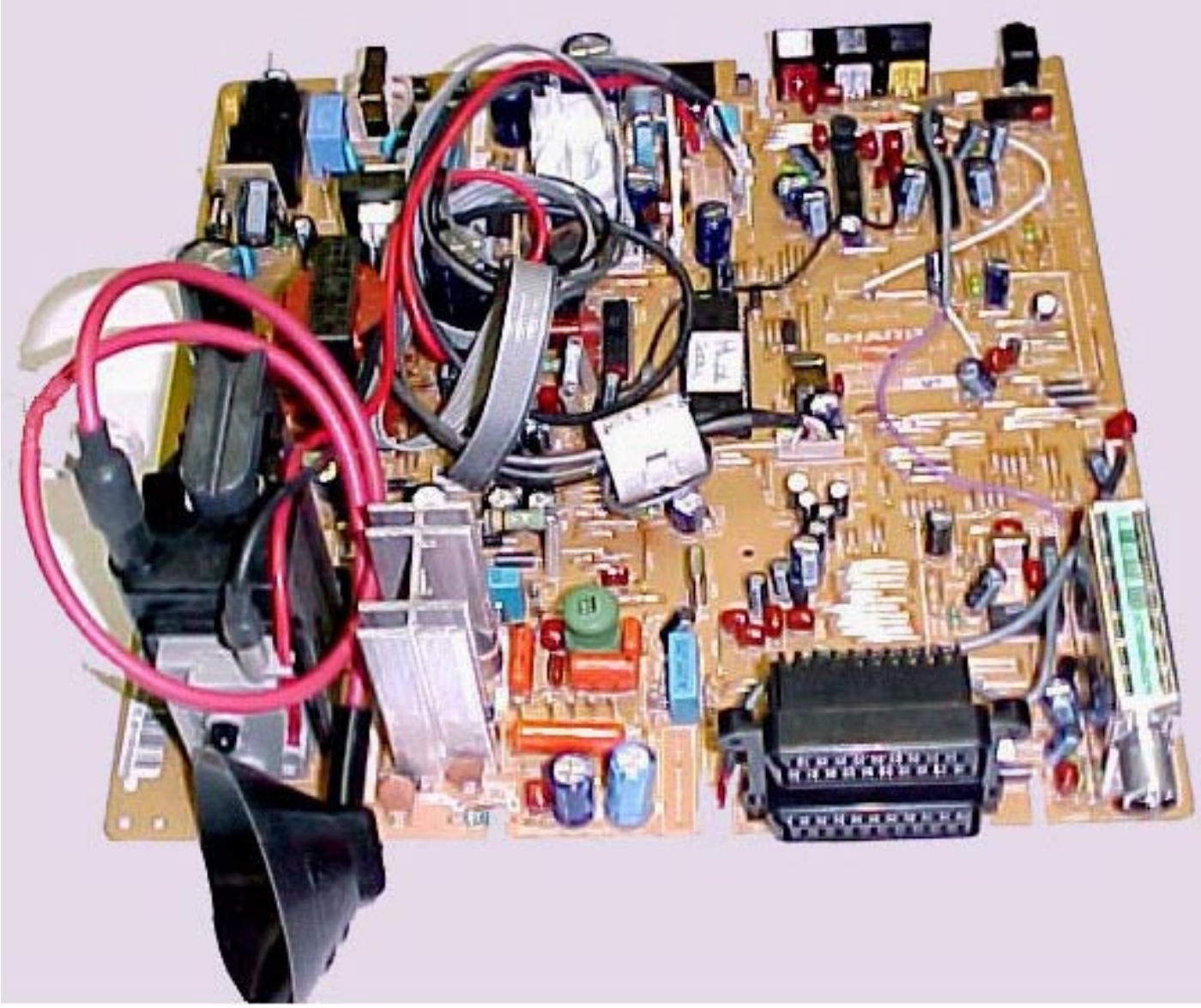
F7315N4. MOTHER UNIT PWB. Copper side.



F7315N4. MOTHER UNIT PWB. Copper side.

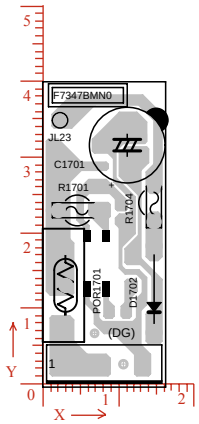


F7315N4. CHASSIS LAYOUT.

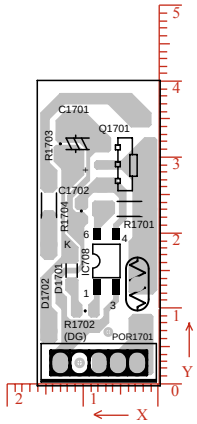


PTC UNIT (F7347N0) PWB & COMPONENT LOCATION TABLES.

Component Side.



Copper Side.



Component Side.

Ref No	Xum	Yum
(DG)	8128	3048
C1701	11176	32004
D1702	14732	12954
JL23	2286	35306
JL23.	6858	7112
POR170	3048	13462
R1701	4572	23368
R1704	14732	24384

Copper Side.

Ref No	Xum	Yum
C1702	10414	23114
D1701	11684	15240
IC708	7112	16510
Q1701	4572	29210
R1702	9906	9906
R1703	13208	32004

MOTHER UNIT (F7315N4) PWB COMPONENT LOCATION TABLES.

Component Side.

Ref No	Xum	Yum
(AV)	190754	219710
(AV).	213360	128778
(F)	96012	29464
(G)	37338	195326
(H)	79248	97536
(H).	118872	167640
(K)	169672	102870
(K).	152146	200406
(M)	7366	207772
(MO)	141224	20320
(RT)	180594	157734
(SA)	239014	139700
(SB)	237744	166116
(SP)	193548	208788
(VS)	151384	222504
AV1	175768	7620
C1001	229362	145542
C1005	217678	148082
C1006	203454	150114
C1016	174752	118872
C1019	120650	232918
C1027	177419	112903
C1027.	189738	112014
C1031	182372	173736
C1040	213360	119126
C1041	146939	150368
C201	212852	72898
C204	203200	56896
C205	217424	60960
C212	220980	25146
C215	217170	16002
C220	219964	76708
C221	217170	7874
C222	238760	87376
C301	205232	17526
C302	163068	87376
C303	172974	84328
C304	165862	82296
C308	159258	62230
C309	164846	66040
C311	166370	72644
C312	169418	77724
C316	162306	51562
C317	156464	51054
C318	150622	48514
C319	147574	52578
C320	152908	57912
C330	136144	83820
C3308	227076	188976
C3309	227330	199898
C3310	226314	179070
C351	173228	176276
C353	189230	190500
C355	241300	181864
C356	175514	206248
C358	175514	185420
C361	190246	201930
C362	174498	195580
C363	169164	184404
C365	197104	181864
C368	214884	191008
C370	195834	191770
C372	214122	201168
C373	207010	201168
C376	195834	201930
C377	222758	200914
C378	218948	182880
C386	236982	212090
C388	173482	220980
C389	179832	223774
C392	235458	207772
C402	238760	101854
C404	239268	73152
C422	196342	72390
C504	102616	118110
C511	116332	119634
C520	73660	83566
C524	118872	126492
C526	106934	153162
C601	108204	21336
C602	83566	60198
C603	89154	27432
C609	100584	84582
C613	101092	7112
C617	116078	36322
C618	46736	95758
C619	122936	45720
C620	85090	12192
C621	69088	4064
C622	108966	6350
C623	121158	7112
C624	134874	36830
C625	117856	64516
C626	130301	50292
C627	104140	48514
C628	99060	41656
C630	104648	38862
C640	91440	84582
C642	69596	29972
C643	132842	13970
C701	36576	213614
C702	44704	204978
C703	65786	218948
C704	57404	208534
C705	25654	127254
C706	70358	201930
C707	33782	176276
C709	24384	95758
C710	9652	107442
C711	40640	152146
C712	50038	189484
C713	13462	141986
C717	28448	113284
C720	91440	151892
C721	14224	117094
C725	29210	137668
C726	111506	224790
C727	88646	221488
C728	79756	141986
C729	98806	109474
C730	24384	140462
C731	98552	157734
C732	91440	160020
C733	79248	120396
C734	22860	113284
C735	91440	103886
C737	101346	230886
C738	21336	107188
C796	18288	114554
C798	45212	163322
C799	56896	151638
C801	228092	72136
C803	173228	110490
C805	166116	112522
C809	213360	124714
C901	107696	170180
C902	147828	211328
C904	124460	182372
C905	126492	201168
C909	143510	170434
C914	96520	176022
C915	140462	215138
C916	131063	183642
CN4	232994	241985
D1001	130301	229997
D1002	142290	229997
D1007	192405	109982
D510	61976	86614
D602	68326	58420
D605	52070	88392
D607	99314	57150
D609	77724	66294
D610	87122	79248
D611	63500	96520
D612	70104	12700
D613	58928	9652
D621	80518	54102
D627	88011	90170
D630	139954	34290
D634	62230	70612
D701	67310	228092
D702	66802	223012
D703	62992	201676
D704	67310	214122
D709	58420	111252
D712	36576	160274
D719	86868	204978
D720	75184	131063
D721	75184	127254
D722	76454	113538
D729	12700	99568
D736	12700	103378
D740	55880	107188
D749	79121	158750
D798	83312	204978
D901	137160	207264
D903	125984	171196
F601	108712	13462
F602	87884	4826
F701	7620	186690
F702	75692	156464
F703	82550	158775
F704	76454	110490
FB1A	35306	52832
FB302	208026	21844
FB303	207264	11938
FB401	231648	117602
FB402	233807	113792
FB501	103632	147320
FB603	94234	73406
FB701	83566	182626
FB702	87376	181864
FB703	40132	163322
FB801	221615	128524
G2	141224	209550
IC1001	190500	133350
IC1002	144018	128016
IC1008	118110	239471
IC202	221488	35306
IC301	182118	189738
IC302	207518	186690
IC304	230632	215900
IC305	234188	191770
IC501	118872	141478
IC702	79248	102870
IC703	40894	103632
IC705	55626	101600
IC708	162052	57912
IC901	134874	189738
J1	88646	232664
J100	184404	169164
J102	191770	152908
J103	188976	160782
J105	203962	161036
J106	205994	159766
J107	208026	161036
J108	210566	156972
J109	218440	164592
J110	229108	156718
J111	220472	164592
J113	226568	163068
J114	231140	164846
J115	26416	123190
J116	26416	121158
J117	64770	109728
J118	67310	109728
J122	113411	119380
J125	140462	118618
J126	143510	119126
J127	146812	138176
J13	232156	223520
J133	161544	122656
J136	225552	133858
J137	225552	131826
J138	225374	140716
J139	234950	119888
J140	241554	128016
J142	21590	97790
J148	96774	97028
J149	95504	99060
J151	109220	105410
J152	109220	103378
J153	110236	94742
J155	111252	100076
J156	124206	114046
J157	124460	106934
J158	124714	110998
J159	121920	108966
J16	122174	201930
J160	124968	104902
J161	127762	96774
J162	124714	102870
J163	124714	100838
J164	127762	94742
J165	129794	92710
J166	125984	118618
J167	126238	116586
J169	145796	103378
J17	163068	209550
J170	151638	105410
J171	155194	98044
J172	158496	115570
J173	146812	101346
J176	193040	101854
J177	193040	99822
J178	191897	107950
J179	185420	90805
J18	169164	211582
J180	193802	97282
J181	195834	95250
J182	199898	112014
J183	205232	103886
J184	206121	105918
J187	209296	89662
J188	216331	114554
J189	211582	97536
J19	170434	214122
J190	213868	90932
J191	224282	109728
J192	221742	107696
J193	215900	96012
J194	225552	111760
J195	217932	93472
J196	220472	96012
J197	223012	101092
J198	225552	93472
J2	97536	226822
J20	170942	216662
J201	227584	93472
J202	236982	107696
J203	234696	96012
J205	52070	85598
J206	59690	70612
J207	65277	82042
J212	105918	76200
J213	109728	89408
J214	112776	81280
J215	116332	84328
J216	113792	71628
J217	124714	89408
J218	125222	73406
J219	181610	69088
J220	174752	76454
J221	176784	76454
J222	181356	78232
J223	183388	77470
J224	196088	93218
J225	190500	84328
J226	192532	84074
J227	194564	84836
J228	196596	83058
J23	193040	215138
J230	198628	83058
J231	200914	74676
J232	207010	77470
J233	205994	85344
J234	211328	86868
J235	229616	87122
J236	236220	81534
J237	236220	78994
J238	232156	70358
J239	64770	54102
J24	193040	212598
J242	107696	59690
J243	176276	56896
J244	178562	54610
J245	178562	52578
J246	179324	50546
J247	180086	67056
J248	180086	65024
J249	180086	62992
J250	180086	58928
J251	177292	60960
J253	182880	48514
J257	181864	44450
J259	196088	60706
J262	211328	53340
J263	215392	41656
J266	225044	61468
J268	227076	61468
J269	236728	60706
J272	64008	20574
J273	66548	20574
J275	116205	26162
J276	126238	16764
J277	152654	36068
J278	152908	24130
J279	175006	40132
J280	175006	38100
J281	175006	36068
J282	168656	34036
J283	181356	34036
J284	202438	40894
J285	202438	38862
J286	202438	36830
J287	209296	34798
J289	206756	24384
J290	209296	26670
J295	240792	25146
J296	98298	9144
J30	217424	216408
J307	84709	94615
J309	93726	44450
J310	130048	172720
J321	127508	98806
J322	112014	92202
J326	117348	173482
J328	216916	144653
J34	40894	178308
J35	44958	179324
J37	70104	183896
J38	85344	159258
J39	88646	166624
J4	109728	237236
J40	118618	171196
J401	216458	237998
J44	164592	164719
J45	166624	165862
J47	168656	165354
J5	123698	236982
J52	189738	180848
J55	214376	172974
J56	216408	165608
J59	223012	165862
J61	228854	171196
J62	233426	169926
J65	51816	160782
J67	57404	163576
J68	65531	141732
J74	117856	156210

MOTHER UNIT (F7315N4) PWB COMPONENT LOCATION TABLES.

Component Side

Ref No	Xum	Yum
J82	132334	156210
J83	136398	156972
J88	150876	163068
J89	152908	163068
J9	156210	219202
J90	154940	152654
J91	157480	140716
J92	159512	141732
J93	159893	160401
J94	161544	141986
J95	162560	163322
J96	163576	139573
J97	166370	141732
J98	168656	142748
J99	173736	150114
JF27	59436	43688
JF28	80518	50546
JF32	153162	38100
JF36	143002	48514
JF37	157226	94742
JF38	170434	92583
JF40	220218	54102
JF41	224282	51816
JF42	224282	45720
JF46	174752	93980
JF47	176784	94284
JF48	178816	94284
JF54	235204	122428
JF55	223266	122428
JF61	55880	12192
JF62	128270	17018
JF63	130048	36220
JF64	61214	167259
JF65	11938	210058
JF702	130048	219964
JL1	142240	84074
JL1.	193040	205232
JL12	206502	144780
JL12.	226568	79756
JL13	240792	94234
JL13.	147574	16002
JL14	143002	4826
JL14.	240030	65277
JL17	140970	82296
JL17.	177546	31750
JL3	235712	56896
JL7	197866	223520
JL7.	144272	84074
JL8	143002	56769
JL8.	228854	61214
L1001	213106	153162
L1004	141224	155956
L1007	133858	126238
L202	198374	53086
L203	220726	11176
L3	95758	169164
L301	125730	86868
L302	232410	226314
L303	190754	223520
L315	199898	196596
L316	218440	198120
L318	203200	221234
L350	166116	196596
L351	169926	196596
L352	181864	207264
L353	205486	207772
L401	166116	44704
L402	150114	23114
L403	146812	10160
L501	102870	137160
L602	207518	119126
L605	113284	46482
L609	72898	69596
L610	99060	92964
L701	51054	220472
L705	91440	114808
L801	161798	109474
L901	93980	179832
LP701	37490	232943
M1000	98501	236931
POR701	21336	177292
Q502	93980	123444
Q601	79756	31750
Q602	83820	31750
Q605	79502	72136
Q610	120142	55118
Q613	81026	83566
Q701	46228	154940
Q702	12700	125476
Q703	9906	92202
Q708	154686	231902
Q709	107442	160528
Q796	83058	117094
R1036	157226	161798
R202	205232	68580
R203	202946	68834
R213	224282	9398
R214	110744	86868
R219	240792	36830
R220	240792	49784
R223	193802	60960
R252	234696	70866
R337	226568	212090
R355	196596	175260
R358	208026	217678
R359	216408	208788
R387	225552	136652
R501	107696	132842
R503	107416	116586
R518	110490	118872
R530	68326	75438
R531	107950	57150
R553	97790	121666
R554	108458	54610
R601	113538	73660
R602	118110	67564
R603	92710	69850
R609	74168	75184
R614	88900	8382
R617	54356	82804
R618	127000	31496
R627	130048	38354
R629	125222	52578
R631	139954	34290
R650	54356	92964
R651	121412	61976
R652	125222	55168
R714	59436	195326
R718	30988	113284
R723	25908	113284
R738	120904	161163
R746	62230	157734
R747	68834	146812
R787	27686	104648
R790	32512	158496
R798	22352	133350
R799	13208	130555
R904	131063	202692
R906	116332	176530
R907	99568	172212
R908	127000	189738
R936	152654	187960
REF10	32258	-3556
REF5	172720	138176
S701	20497	247015
S702	48514	238201
S703	60502	238201
S704	72517	238201
S705	84505	238201
SF201	214884	49022
SF202	222504	61722
T601	33655	51003
T701	49784	130048
T702	61214	173482
TN201	232410	4826
TPC1	239014	153670
TPC10	239014	130809
TPC100	170053	7620
TPC101	166243	7620
TPC102	162433	7620
TPC103	158623	7620
TPC11	239014	128270
TPC12	239014	125730
TPC13	237744	172389
TPC14	237744	169900
TPC15	237744	167386
TPC16	237744	164896
TPC17	237744	162382
TPC18	237744	159893
TPC19	179324	157734
TPC2	239014	151130
TPC20	181864	157734
TPC21	197358	208788
TPC22	194818	208788
TPC23	192278	208788
TPC24	189738	208788
TPC25	141224	24130
TPC26	141224	21590
TPC27	141224	19050
TPC28	141224	16510
TPC29	151384	225044
TPC3	239014	148590
TPC30	151384	222504
TPC31	151384	219964
TPC32	84328	97536
TPC33	81788	97536
TPC34	79248	97536
TPC35	76708	97536
TPC36	74168	97536
TPC37	160782	102870
TPC38	163322	102870
TPC39	165862	102870
TPC4	239014	146050
TPC41	170942	102870
TPC42	173482	102870
TPC43	176022	102870
TPC44	178562	102870
TPC5	239014	143510
TPC6	239014	140970
TPC63	156718	24765
TPC64	160528	24765
TPC65	164338	24765
TPC66	168148	24765
TPC67	171958	24765
TPC68	175768	24765
TPC69	179578	24765
TPC7	239014	138430
TPC70	183388	24765
TPC71	187198	24765
TPC72	191008	24765
TPC73	194818	24765
TPC74	192913	19685
TPC75	158623	19685
TPC76	162433	19685
TPC77	166243	19685
TPC78	170053	19685
TPC79	173863	19685
TPC8	239014	135890
TPC80	177673	19685
TPC81	181483	19685
TPC82	185293	19685
TPC83	189103	19685
TPC84	156718	12700
TPC85	160528	12700
TPC86	164338	12700
TPC87	168148	12700
TPC88	171958	12700
TPC89	175768	12700
TPC9	239014	133350
TPC90	179578	12700
TPC91	183388	12700
TPC92	187198	12700
TPC93	191008	12700
TPC94	194818	12700
TPC95	192913	7620
TPC96	189103	7620
TPC97	185293	7620
TPC98	181483	7620
TPC99	177673	7620
TRC	108204	190246
VAR1	6604	226822
X1002	168402	123444
X201	212090	67056
X301	138176	64008

Copper Side

Ref No	Xum	Yum
C1002	230378	142494
C1003	212979	138811
C1004	216916	148971
C1007	203454	150622
C1008	196850	154432
C1009	176784	153162
C1010	176022	146050
C1011	168402	131318
C1012	146812	127254
C1013	171297	125984
C1014	170078	121920
C1015	166827	121920
C1017	203327	115570
C1018	207010	119761
C1020	190627	97663
C1021	188722	103378
C1022	115824	233172
C1024	208788	120142
C1028	172110	112369
C1030	214630	150622
C1032	209677	151130
C1033	218440	131826
C1034	217424	138430
C1036	219456	97282
C1037	198628	154305
C1038	138938	134874
C1042	191897	108712
C1043	227076	213614
C1044	236982	211582
C1045	235966	207010
C1046	231902	176784
C1048	207010	93726
C1049	138811	163322
C1050	115824	235966
C1051	201549	117221
C1060	198628	157480
C202	195580	61722
C203	195072	58420
C206	199898	54864
C207	218694	66802
C208	201168	50546
C209	213106	45720
C210	226314	50038
C211	230124	40386
C213	227838	28194
C214	228854	21082
C216	201676	88138
C217	214376	51054
C218	211328	53721
C219	201422	56896
C223	222504	85852
C224	223774	109474
C225	223774	111506
C305	139395	88188
C306	137566	88188
C307	160401	67183
C310	165100	66040
C313	129032	93980
C321	151638	57912
C322	147320	54356
C323	145542	55880
C324	144018	59690
C325	141478	62738
C326	140462	59944
C327	137668	64770
C328	137414	82550
C329	135636	82804
C3300	240538	194310
C3301	222250	189992
C3302	231902	195580
C3303	231902	200406
C3304	225044	193040
C3305	225044	186182
C3313	240030	169672
C337	186944	21844
C338	198374	22860
C339	187198	18796
C340	198628	18542
C341	190500	21336
C342	195834	19812
C343	204724	11938
C344	202692	11938
C345	187198	8890
C346	195072	8636
C347	205740	16256
C348	190500	9144
C350	179832	187198
C352	173228	176276
C354	182118	196088
C357	182118	199644
C359	189992	196088
C360	178816	204470
C364	169672	186182
C366	199136	181864
C367	205740	183134
C369	208280	192024
C371	208280	197104
C374	208280	189992
C375	205740	207772
C379	216662	181610
C380	233172	235712
C381	225298	230886
C382	219964	214630
C383	235458	219964
C384	239014	219964
C385	228854	209804
C387	233680	219964
C390	177800	229362
C391	191008	232664
C393	234950	179324
C394	234950	183388
C395	234950	187198
C396	234950	185420
C397	235966	202438
C398	235966	198628
C399	235966	200660
C403	167386	22352
C405	206756	225044
C407	196850	90932
C408	197358	93980
C409	195580	95250
C423	189357	56642
C424	185420	53340
C427	192532	23114
C428	196342	22860
C429	192532	11176
C430	197866	12954
C431	179070	81661
C432	236728	87122
C433	240284	72644

MOTHER UNIT (F7315N4) PWB COMPONENT LOCATION TABLES.

Copper Side.

Ref No	Xum	Yum
C502	118364	133858
C503	118110	131826
C505	116840	142748
C506	118364	139192
C507	118364	137414
C508	112268	139700
C510	118364	135636
C512	97536	130301
C521	187960	110871
C522	101854	149606
C523	188849	109093
C525	94996	141732
C534	99060	149352
C540	106934	57912
C541	106426	55372
C542	116586	156210
C543	188722	38354
C550	101092	152654
C604	89154	66802
C605	76962	66040
C606	94742	82550
C607	80264	86868
C608	99060	45466
C610	83566	77470
C612	84328	50292
C629	107442	66548
C631	107188	69342
C632	96266	68580
C641	66548	83058
C715	33274	110236
C716	9652	85852
C718	27178	93726
C719	20828	82296
C722	58928	105918
C723	10160	114300
C724	28194	91694
C736	93726	99822
C739	74676	104902
C740	78232	112522
C741	160528	57150
C802	173736	112369
C804	176784	116433
C810	209550	143637
C906	138430	177038
C907	139446	180086
C908	139192	190246
C910	150368	172974
C911	136652	170688
C912	151892	208788
C913	115824	193294
D1003	230124	101854
D1004	193294	96012
D1005	192278	101346
D1006	138938	101092
D1008	143764	128270
D1009	188722	106934
D1011	213360	133858
D201	220218	54102
D202	224282	51816
D203	224282	45720
D204	227838	23114
D205	227838	25908
D302	141605	89662
D303	143637	89662
D304	166370	84836
D305	167640	80264
D306	176276	173482
D403	158496	29464
D404	154178	22860
D405	154178	9906
D406	155702	16510
D407	185420	14224
D408	173228	11176
D409	168402	14986
D410	161544	14986
D411	177038	27432
D420	170688	27432
D421	162560	22352
D422	178816	9906
D423	192786	5842
D424	187706	5842
D425	191262	17526
D426	186436	17018
D507	88011	129667
D508	103632	114808
D511	109220	116840
D512	113030	81788
D604	97536	51308
D606	94742	44704
D608	105410	80772
D615	50800	88392
D616	108204	51054
D617	96774	46482
D618	85852	48006
D619	80772	36322
D620	80518	30734
D622	127254	43688
D623	136398	39370
D624	106680	40132
D625	108458	75946
D626	102362	78740
D628	119888	16002
D629	109982	11684
D631	95504	63754
D632	87122	63754
D633	87122	61722
D635	57404	77724
D636	106553	61468
D705	52578	114808
D706	55626	115570
D707	48768	160782
D708	8890	81788
D713	33020	99060
D714	49784	156464
D715	65024	176784
D716	43434	176784
D717	9144	122682
D718	23368	95758
D723	163068	67056
D724	142748	242062
D725	14732	81788
D727	149352	240284
D728	84836	104140
D730	9906	109982
D731	9906	112268
D732	26670	102108
D733	24130	113030
D734	9144	120650
D735	7112	125476
D737	33782	105156
D738	8890	83820
D739	18796	82804
D741	49784	174752
D742	83820	157734
D743	30988	101092
D744	79248	157734
D746	26924	137160
D747	104902	157226
D748	49022	105029
D750	65531	105410
D902	136144	168656
D904	112903	187325
D905	108077	173990
D906	101981	173609
IC1003	225298	155702
IC1004	229362	149606
IC1009	143865	109931
IC201	211328	60198
IC303	150368	74676
IC502	101600	143764
IC601	96774	72644
IC701	53340	184404
J10	147116	104851
J101	184658	160274
J104	200660	157480
J11	168148	235204
J112	228854	145034
J119	102870	140208
J120	105156	137160
J121	107188	131318
J123	114808	119634
J124	120142	140970
J128	147066	145034
J129	146812	121666
J130	148590	121666
J134	163830	120650
J14	231140	228600
J141	19304	95504
J143	35052	99060
J145	48768	100330
J146	69088	93218
J147	74676	115824
J15	241046	233934
J168	146507	114198
J174	164846	117094
J175	181610	106172
J185	204978	103632
J186	206756	103632
J204	234696	96012
J208	72644	86106
J209	72644	89154
J21	178816	219456
J210	74422	79502
J22	178816	221234
J229	196850	69342
J241	108458	54610
J25	197866	201422
J252	175514	65024
J254	177038	60452
J255	177800	56388
J256	180848	52324
J258	198628	52578
J26	200914	197104
J260	198628	60960
J261	197866	64008
J264	220472	45720
J265	222250	42926
J267	226314	45720
J27	205232	197104
J270	236728	43688
J271	239014	48260
J274	93853	33147
J28	213106	219964
J288	202184	28194
J29	216916	208280
J291	206502	29464
J292	209042	41910
J293	100838	86868
J294	236728	40894
J297	146812	12192
J298	158496	114808
J299	161290	5588
J3	107950	230378
J300	172720	9398
J301	174752	17399
J302	211074	13462
J303	83566	155702
J304	220726	9652
J305	207772	5842
J306	106426	44577
J308	234442	204978
J31	217932	197104
J311	152400	13462
J312	145034	162814
J313	172466	167386
J314	206248	169164
J315	166624	166878
J316	163068	165354
J317	235966	105410
J318	233680	104648
J319	230632	86868
J32	225044	201422
J320	88392	233172
J323	88138	87630
J324	99568	90170
J325	41148	51054
J327	107188	19050
J329	158496	128828
J33	228600	206756
J36	47752	186436
J41	117602	176530
J42	150368	175006
J43	164338	177038
J46	167894	193802
J48	169926	175514
J49	180848	191008
J50	182372	171704
J51	184150	188468
J53	199898	185674
J54	207518	186944
J57	220980	176022
J58	221996	194056
J6	125984	234442
J60	226314	179070
J63	232664	191770
J64	235458	191008
J66	50038	167894
J69	83312	144780
J7	133858	237744
J70	84328	160782
J71	86106	160782
J72	101600	160528
J73	109982	150114
J75	114808	156210
J76	118110	152654
J77	119126	155956
J78	119634	161290
J79	120650	159258
J8	133858	239522
J80	120904	151638
J81	121158	155956
J84	138684	145288
J85	142240	145796
J86	146558	146812
J87	146812	148590
JF1	142240	59944
JF10	218440	51308
JF1001	31496	18796
JF1002	33274	18796
JF1003	35052	18796
JF1004	37592	18796
JF1005	39370	18796
JF1006	41148	18796
JF1007	42926	18796
JF1008	44704	18796
JF1009	46482	18796
JF1010	48260	18796
JF1011	50038	18796
JF1012	51816	18796
JF1013	53594	18796
JF1014	51816	14478
JF1015	50038	14478
JF1016	48260	14478
JF12	195326	212598
JF13	191008	213106
JF14	193040	213106
JF15	197104	212598
JF16	221742	233172
JF17	187960	212344
JF18	213360	216916
JF19	239776	226314
JF20	106172	239014
JF21	106172	241300
JF22	224282	51816
JF23	212090	28702
JF24	210820	20574
JF25	207518	20066
JF26	197866	26289
JF29	133096	38354
JF3	96774	240284
JF33	106934	59690
JF34	87376	63754
JF35	87376	61722
JF39	220218	229616
JF4	169926	75692
JF43	172110	116230
JF44	163169	107696
JF5	229362	44958
JF50	180441	101396
JF52	219964	233172
JF53	196596	230124
JF57	39878	160020
JF58	145542	4826
JF59	237998	62484
JF6	235712	34036
JF60	93726	235204
JF66	146304	151587
JF67	144272	152603
JF68	165608	127000
JF69	161544	121716
JF7	235712	29972
JF70	138785	111353
JF701	80010	144272
JF71	138785	109321
JF72	159512	123545
JF8	235458	18034
JF9	229870	11684
L1002	220980	133350
L1003	195961	158369
L1005	218186	107442
L1006	202692	113284
L1008	168402	125222
L205	229616	49022
L317	220218	229616
L606	47498	73660
Q1001	207035	99568
Q1002	131597	234442
Q1003	136169	234442
Q1004	53086	120142
Q1005	229362	96012
Q1006	146050	98298
Q1007	141224	137922
Q1008	141986	133096
Q201	211328	69342
Q202	201676	47752
Q204	219202	78740
Q305	167640	180086
Q306	182118	178816
Q403	203200	70358
Q404	169926	41910
Q405	173228	39624
Q503	102616	125476
Q505	95250	137668
Q507	99822	137414
Q510	88265	145288
Q603	85090	43180
Q604	84074	38862
Q606	46228	92964
Q607	84074	87630
Q608	88138	38608
Q609	130048	38354
Q611	87884	76200
Q704	56388	173736
Q705	61976	173228
Q706	145034	236982
Q707	149352	234950
Q710	78740	107696
Q711	74676	107950
Q712	46736	180086
Q713	33528	93218
Q714	39116	111506
Q715	17780	91694
Q720	37338	177546
Q721	46228	168910
Q723	8382	117348
Q724	27940	98806
Q725	13970	87376
Q901	141478	175006
Q902	146050	175006
Q903	150114	180594

MOTHER UNIT (F7315N4) PWB COMPONENT LOCATION TABLES.

Copper Side.

Ref No	Xum	Yum
Q904	142240	185420
Q905	147066	185674
Q906	149352	190500
Q907	141732	195580
Q908	146812	194310
Q909	147066	200914
Q910	147828	209042
R1001	234950	125984
R1002	233934	128016
R1003	192278	158750
R1004	192024	156718
R1005	184912	157226
R1006	209804	92710
R1007	207010	107950
R1008	225298	92456
R1009	141986	96774
R1010	141986	98552
R1011	188722	101600
R1013	128524	234442
R1014	136398	228600
R1015	136398	230632
R1016	205740	96012
R1017	104140	236474
R1018	210566	118618
R1020	218313	91821
R1022	213614	112014
R1023	166420	118872
R1024	141478	141224
R1025	145288	137922
R1026	140970	128016
R1030	48514	239776
R1031	60198	239776
R1032	69850	241046
R1033	85852	233172
R1034	189484	99822
R1035	150571	94488
R1037	139192	235204
R1039	52070	124460
R1040	191262	105156
R1041	205232	120396
R1043	84582	240284
R1044	48514	241554
R1045	60198	241554
R1046	72390	236728
R1099	99060	234442
R201	217932	70358
R204	193802	61722
R205	206502	69088
R206	205486	56896
R207	218694	68580
R208	205232	51562
R209	222250	51308
R210	211836	43434
R211	218186	44704
R212	222504	46228
R215	95631	87249
R217	224536	17780
R221	207264	43815
R222	207518	50038
R225	227838	16256
R230	192024	61722
R231	213360	76200
R240	228854	19304
R250	84836	93726
R301	161290	85344
R302	162052	88646
R303	176276	82042
R304	172212	81788
R305	173228	83820
R306	171958	79756
R307	129032	91948
R308	130809	78994
R309	135382	76962
R310	154432	51308
R311	153924	46482
R312	149860	46736
R313	147066	51054
R318	182372	17526
R319	189992	26670
R320	195580	17526
R321	194818	26924
R322	183896	10160
R323	196850	8636
R324	195072	14732
R325	190754	14732
R326	200660	14224
R327	187960	10668
R328	241554	226314
R329	233426	226060
R330	225806	208788
R331	228854	218440
R332	240792	223012
R333	232918	222758
R334	240792	219964
R335	231902	219964
R336	237236	219964
R338	170688	228346
R339	189992	223774
R340	234950	181356
R341	234950	188976
R342	235712	196850
R343	208026	172466
R344	240538	199390
R345	224028	176022
R346	221996	187960
R347	221996	192024
R350	166116	196850
R351	169926	197104
R352	182118	194310
R353	182626	202692
R356	208280	194056
R357	209042	207010
R360	223266	207010
R361	218694	135636
R362	211582	170180
R369	127762	78486
R370	132334	75692
R380	198882	193802
R381	198882	197104
R382	173228	203708
R383	182118	197866
R384	185928	175768
R385	182372	174498
R386	234442	169418
R405	152146	22860
R406	164084	28194
R407	171196	22352
R408	182626	28702
R409	185420	27432
R410	171704	6350
R411	180848	5588
R412	156464	9144
R413	155956	39370
R414	149606	22606
R415	153162	27940
R416	207010	22352
R417	148082	27178
R418	180848	14478
R419	173990	14986
R420	168402	10160
R421	164338	10160
R422	196342	72390
R423	212598	126746
R434	175260	43942
R435	164592	30734
R450	173228	43942
R502	106680	134620
R504	98298	133350
R505	96901	121539
R506	88900	124714
R507	102870	132080
R508	88138	137922
R509	119380	122682
R510	118110	130048
R511	112014	134620
R512	108712	142748
R513	96520	144272
R514	94996	134620
R515	108712	140970
R516	109474	135128
R517	101600	133858
R526	86614	135128
R528	89154	135128
R534	105918	150114
R535	105918	151892
R544	97028	151892
R545	103378	137160
R547	94996	132080
R548	109220	156210
R549	103632	147828
R550	94996	149606
R551	88138	140462
R552	88265	142240
R604	84836	82550
R607	86106	45974
R608	88138	41656
R610	84836	35814
R611	96774	97028
R612	96774	42672
R616	96774	39370
R620	89154	44958
R621	105156	49276
R622	43434	91948
R623	86868	81915
R624	203962	110744
R625	203454	107442
R626	116078	50038
R628	126746	39624
R630	136144	37338
R632	89154	80518
R633	107442	64516
R634	99314	80772
R635	98806	66802
R637	100330	77978
R638	86106	79248
R639	104648	65531
R643	105410	69342
R644	99314	57404
R645	104140	10668
R653	60452	74168
R654	53086	72136
R655	89154	72898
R656	53594	96266
R700	30734	93218
R701	53594	175006
R703	49784	172974
R704	18288	88646
R705	70104	183515
R706	64008	189738
R708	58166	191262
R709	33782	154940
R710	33782	159004
R711	37846	173228
R712	52578	193548
R713	56388	178054
R715	42418	178562
R716	34798	162306
R717	51308	109982
R719	11684	104140
R720	12954	91694
R721	16382	123317
R722	12192	117602
R724	14732	91694
R725	14224	110490
R726	30226	96012
R727	19558	86614
R728	29718	107188
R729	6858	86868
R731	6096	111252
R732	35560	108458
R733	97282	102362
R735	97282	100584
R736	82042	105918
R737	66040	109728
R739	48133	102870
R740	53340	105156
R741	56134	106426
R742	70612	99568
R743	70104	103505
R744	61722	101473
R745	62230	104394
R748	59182	169926
R749	5842	138938
R750	46990	165354
R751	42418	180594
R752	53848	170688
R753	49784	171196
R754	59182	172974
R755	157480	229108
R756	147320	239522
R757	162560	228092
R758	143764	240030
R759	94234	156210
R760	86614	70612
R761	87376	109982
R765	31242	239014
R766	215392	7874
R767	113538	97028
R768	37338	107950
R770	43180	217678
R771	47244	219710
R772	5842	134112
R773	5842	129286
R774	24892	239014
R776	85344	107950
R777	87376	112522
R778	15748	97282
R779	12192	99568
R780	69596	107315
R781	13970	84328
R782	50292	179578
R783	49276	193040
R784	59690	176784
R785	49784	176784
R786	43180	173736
R788	43180	170942
R789	43434	183642
R791	27432	129794
R792	32512	113792
R793	34798	112268
R794	87376	105664
R795	101346	96012
R801	178612	118262
R802	183134	104140
R803	177292	105410
R804	169926	106426
R901	133858	178054
R902	139446	182118
R903	138430	185928
R905	143002	170434
R909	137414	173736
R910	148590	177800
R911	146812	180848
R912	143510	180086
R913	143510	178308
R914	143510	182118
R915	149860	186690
R916	146558	189738
R917	142494	190500
R918	142570	188544
R919	142494	192278
R920	146431	197612
R921	144272	200406
R922	140716	200660
R923	140716	198628
R925	149860	183388
R926	149606	197358
R927	149860	201168
R931	149098	212090
R932	146558	204724
R933	149098	204978
R934	127762	171196
R935	124714	169926

ICs ADITIONAL INFORMATION: TDA9885 (IC201)

QUICK REFERENCE DATA

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
V_P	supply voltage	note 1	4.75	5.00	5.50	V
I_P	supply current		52	61	70	mA
$V_{i(VIF)(rms)}$	VIF input signal voltage sensitivity (RMS value)	−1 dB video at output	–	60	100	µV
$G_{VIF(cr)}$	VIF gain control range	see Fig.10	60	66	–	dB
f_{VIF}	vision carrier operating frequencies	see Table 28	–	33.4	–	MHz
			–	33.9	–	MHz
			–	38.0	–	MHz
			–	38.9	–	MHz
			–	45.75	–	MHz
			–	58.75	–	MHz
Δf_{VIF}	VIF frequency window of digital acquisition help	related to f_{VIF}; see Fig.7	–	±2.3	–	MHz
$V_{o(v)(p-p)}$	video output signal voltage (peak-to-peak value)	normal mode; see Fig.9	1.7	2.0	2.3	V
		trap bypass mode; see Fig.9	0.95	1.10	1.25	V
G_{dif}	differential gain	*"CCIR 17"*; note 2				
		B/G standard	–	–	5	%
		L standard	–	–	7	%
φ_{dif}	differential phase	*"CCIR 17"*	–	2	4	deg
$B_{v(-3dB)(trap)}$	−3 dB video bandwidth including sound carrier trap	C_L < 20 pF; R_L > 1 kΩ; AC load; note 3				
		f_{trap} = 4.5 MHz	3.95	4.05	–	MHz
		f_{trap} = 5.5 MHz	4.90	5.00	–	MHz
		f_{trap} = 6.0 MHz	5.40	5.50	–	MHz
		f_{trap} = 6.5 MHz	5.50	5.95	–	MHz
α_{SC1}	trap attenuation at first sound carrier	M/N standard	30	36	–	dB
		B/G standard	30	36	–	dB
S/N_W	weighted signal-to-noise ratio of video signal	see Fig.5; note 4	56	59	–	dB
$PSRR_{17}$	power supply ripple rejection at pin 17	f_{ripple} = 70 Hz; video signal; grey level; positive and negative modulation; see Fig.8	20	25	–	dB
$B_{v(-1dB)}$	−1 dB video bandwidth	C_L < 20 pF; R_L > 1 kΩ; AC load; trap bypass mode	5	6	–	MHz
AFC_{stps}	AFC steepness $\Delta I_{21}/\Delta f$		0.85	1.05	1.25	µA/kHz
$V_{o(AF)(rms)}$	audio output signal voltage at pin 8 (RMS value)	27 kHz FM deviation; 50 µs de-emphasis	430	540	650	mV
THD_{audio}	total harmonic distortion of audio signal	27 kHz FM deviation; 50 µs de-emphasis	–	0.15	0.50	%
		AM; m = 54%	–	0.5	1.0	%

ICs ADITIONAL INFORMATION: TDA9885 (IC201)

SYMBOL	PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNIT
$B_{AF(-3dB)}$	−3 dB audio frequency bandwidth for FM	without de-emphasis; dependent on loop filter at pin 4	80	100	–	kHz
$S/N_{W(audio)}$	weighted signal-to-noise ratio of audio signal	27 kHz FM deviation; 50 µs de-emphasis; vision carrier unmodulated	52	56	–	dB
		AM; m = 54%	45	50	–	dB
$\alpha_{AM(sup)}$	AM suppression of FM demodulator	50 µs de-emphasis; AM: f = 1 kHz; m = 0.54 referenced to 27 kHz FM deviation	40	46	–	dB
$PSRR_{8(AM)}$	power supply ripple rejection at pin 8	f_{ripple} = 70 Hz; see Fig.8	20	26	–	dB
$PSRR_{8(FM)}$	power supply ripple rejection at pin 8	f_{ripple} = 70 Hz; see Fig.8	14	20	–	dB
$V_{o(rms)}$	IF intercarrier level (RMS value), valid also for radio	QSS mode; SC_1; sound carrier 2 off	90	140	180	mV
		L standard; without modulation	90	140	180	mV
		intercarrier mode; SC_1; sound carrier 2 off	–	note 5	–	mV
f_{ref}	frequency of reference signal at pin 15	note 6	–	4	–	MHz
$V_{ref(rms)}$	amplitude of reference signal source (RMS value)	operation as input terminal	80	–	400	mV

Notes

1. Values of video and sound parameters can be decreased at V_P = 4.75 V.
2. Condition: luminance range (4 steps) 0 to 80%.
3. The sound carrier frequencies (depending on TV standard) are attenuated by the integrated sound carrier traps (see Figs 16 to 21; $|H(s)|$ is the absolute value of transfer function).
4. S/N is the ratio of black-to-white amplitude to the black level noise voltage (RMS value, pin 17). B = 5 MHz weighted in accordance with *"CCIR 567"*.
5. The intercarrier output signal at pin 12 can be calculated by the following formula taking into account the internal video signal with 1.1 V (p-p) as a reference:

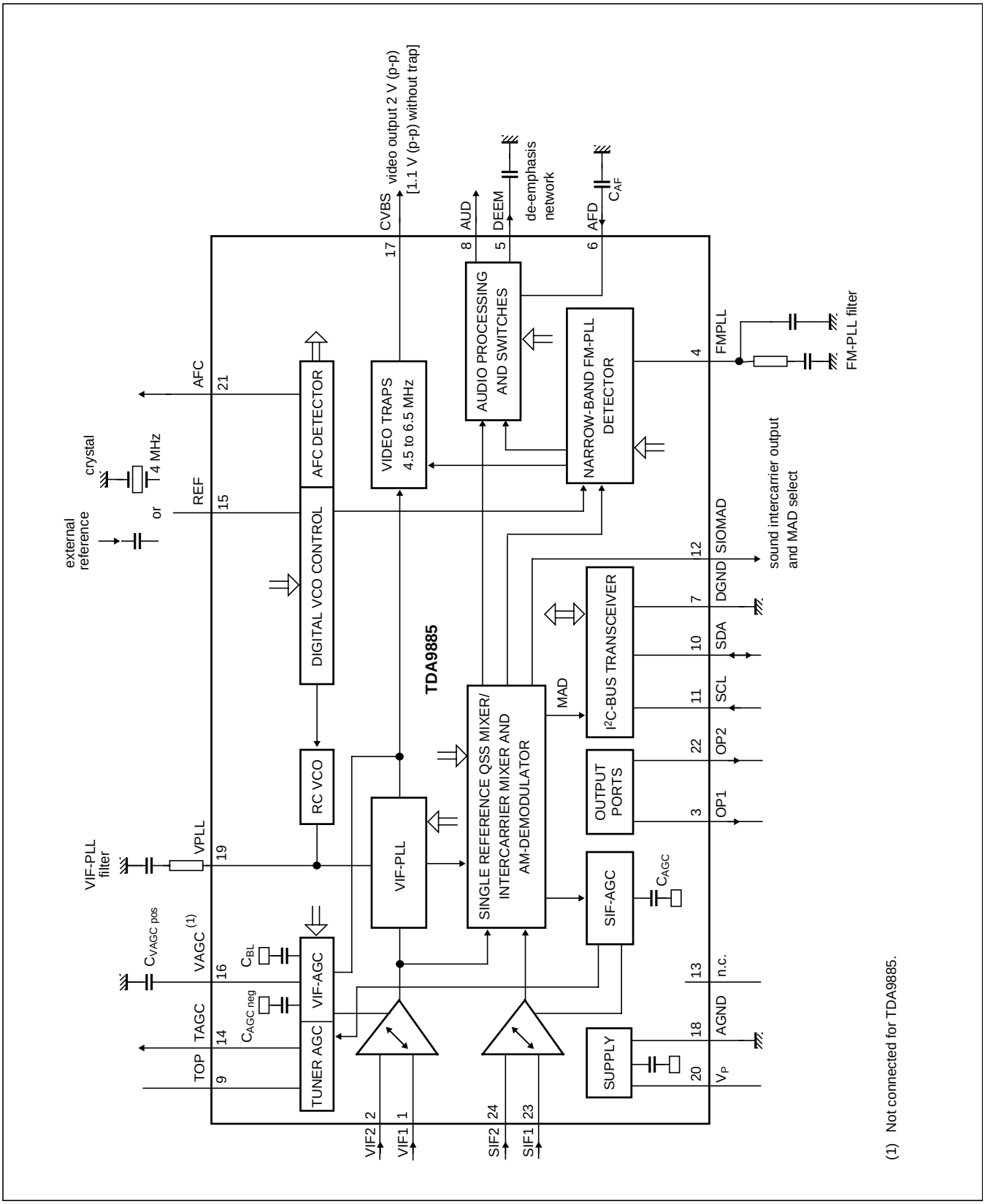
$$V_{o(intc)(rms)} = 1.1\ V\ (p\text{-}p) \times \frac{1}{2\sqrt{2}} \times 10^{\frac{\frac{V_{i(SC)}}{V_{i(PC)}}(dB) + 6\ dB\ \pm 3\ dB}{20}}$$

   where:

   $\frac{1}{2\sqrt{2}}$ = correction term for RMS value, $\frac{V_{i(SC)}}{V_{i(PC)}}(dB)$ = sound-to-picture carrier ratio at VIF input (pins 1 and 2) in dB, 6 dB = correction term of internal circuitry and ±3 dB = tolerance of video output and intercarrier output amplitude $V_{o(intc)(rms)}$.
6. The reference input pin 15 is able to operate as a 1-pin crystal oscillator as well as input terminal with external reference signal, e.g. from the tuning system.

ICs ADITIONAL INFORMATION: TDA9885 (IC201)

BLOCK DIAGRAM



ICs ADITIONAL INFORMATION: TDA9885 (IC201)

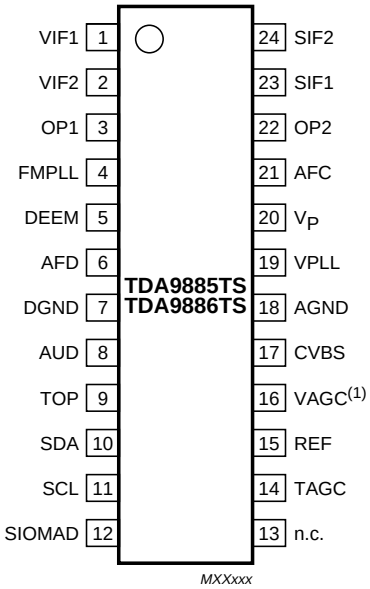
PINNING

SYMBOL	PIN	DESCRIPTION
VIF1	1	VIF differential input 1
VIF2	2	VIF differential input 2
OP1	3	output 1 (open-collector)
FMPLL	4	FM-PLL for loop filter
DEEM	5	de-emphasis output for capacitor
AFD	6	AF decoupling input for capacitor
DGND	7	digital ground
AUD	8	audio output
TOP	9	tuner AGC TakeOver Point (TOP)
SDA	10	I^2C-bus data input/output
SCL	11	I^2C-bus clock input
SIOMAD	12	sound intercarrier output and MAD select
n.c.	13	not connected

SYMBOL	PIN	DESCRIPTION
TAGC	14	tuner AGC output
REF	15	4 MHz crystal or reference input
VAGC	16	VIF-AGC for capacitor; note 1
CVBS	17	video output
AGND	18	analog ground
VPLL	19	VIF-PLL for loop filter
V_P	20	supply voltage (+5 V)
AFC	21	AFC output
OP2	22	output 2 (open-collector)
SIF1	23	SIF differential input 1
SIF2	24	SIF differential input 2

Note

1. Not connected for TDA9885.



(1) Not connected for TDA9885.

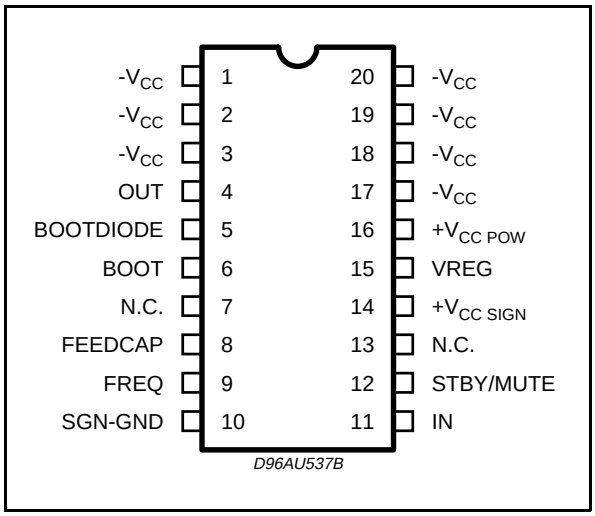
Fig.3 Pin configuration for SSOP24.

ICs ADITIONAL INFORMATION: TDA7480 (IC301, IC302, IC501)

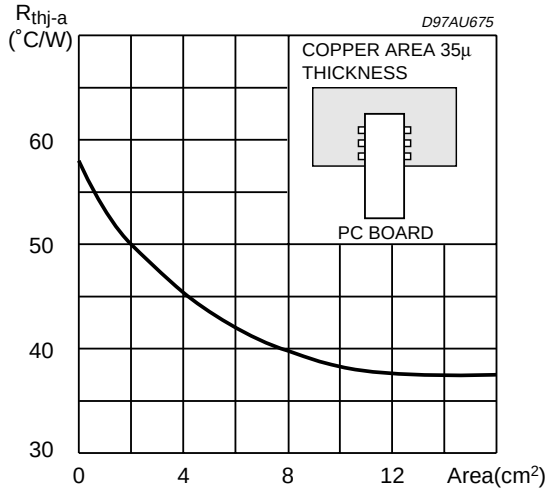
ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CC}	DC Supply Voltage	±20	V
T_{stg}, T_j	Storage and Junction Temperature	–40 to 150	°C
V_{FREQ}	Maximum Voltage Across VFREQ (Pin 9)	8	V
T_{op}	Operating Temperature Range	-20 to 70	°C
ESD	Maximum ESD on Pins	±1.8	kV

PIN CONNECTION (Top view)



Rth with "on board" Square Heatsink vs. copper area.



THERMAL DATA

Symbol	Parameter		Value	Unit
$R_{th\ j\text{-}amb}$	Thermal Resistance Junction to ambient		80	°C/W
$R_{th\ j\text{-}pin}$	Thermal Resistance Junction to Pin	Max.	12	°C/W

PIN FUNCTIONS

N.	Name	Function
1	-V_{CC}	NEGATIVE SUPPLY.
2	-V_{CC}	NEGATIVE SUPPLY.
3	-V_{CC}	NEGATIVE SUPPLY.
4	OUT	PWM OUTPUT
5	BOOTDIODE	BOOTSTRAP DIODE ANODE
6	BOOT	BOOTSTRAP CAPACITOR
7	NC	NOT CONNECTED
8	FEEDCAP	FEEDBACK INTEGRATING CAPACITANCE
9	FREQUENCY	SETTING FREQUENCY RESISTOR
10	SGN-GND	SIGNAL GROUND
11	IN	INPUT
12	ST-BY-MUTE	ST-BY/ MUTE CONTROL PIN
13	NC	NOT CONNECTED
14	+V_{CC} SIGN	POSITIVE SIGNAL SUPPLY
15	VREG	10V INTERNAL REGULATOR
16	+V_{CC} POW	POSITIVE POWER SUPPLY
17	-V_{CC}	NEGATIVE SUPPLY (TO BE CONNECTED TO PIN 16 VIA C5)
18	-V_{CC}	NEGATIVE SUPPLY
19	-V_{CC}	NEGATIVE SUPPLY
20	-V_{CC}	NEGATIVE SUPPLY

ICs ADITIONAL INFORMATION: TDA7480 (IC301, IC302, IC501)

ELECTRICAL CHARACTERISTICS (Refer to the test circuit, V_{CC} = ±14V; R_L = 8Ω; R_S = 50Ω; R_f = 12KΩ; Demod.. filter L = 60µH, C = 470nF; f = 1KHz; T_{amb} = 25°C unless otherwise specified.)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
V_S	Supply Range		±10		±16	V
I_q	Total Quiescent Current	R_L = ∞; NO LC Filter		25	40	mA
V_{OS}	Output Offset Voltage	Play Condition	–50		+50	mV
P_O	Output Power	THD = 10% THD = 1%	8.5 6	10 7		W W
		R_L = 4Ω V_{CC} = ±10.5V THD = 10% THD = 1%		 10 7		 W W
P_d (*)	Dissipated Power at 1W Output Power	R_f = 12KΩ P_O = 1W		1		W
P_{DMAX}	Maximum Dissipated Power	P_O = 10W THD 10% $R_{th\text{-}j\text{-}amb}$ = 38°C/W (Area 12cm^2)		1.8		W
η	Efficiency ≡ $\frac{P_O}{P_O + P_D} \equiv \frac{P_O}{P_I}$ (**)	THD 10% $R_{th\text{-}j\text{-}amb}$ = 38°C/W (Area 12cm^2)	80	85		%
THD	Total Harmonic Distortion	R_L = 8Ω; P_O = 0.5W		0.1		%
I_{max}	Overcurrent Protection Threshold	R_L = 0	3.5	5		A
T_j	Thermal Shut-down Junction Temperature			150		°C
G_V	Closed Loop Gain		29	30	31	dB
e_N	Total Input Noise	A Curve f = 20Hz to 22KHz		7 12		µV µV
R_i	Input Resistance		20	30		KΩ
SVR	Supply Voltage Rejection	f = 100Hz; V_r = 0.5	46	60		dB
T_r, T_f	Rising and Falling Time			50		ns
R_{DSON}	Power Transistor on Resistance			0.4		Ω
F_{SW}	Switching Frequency		100	120	140	KHz
F_{SW_OP}	Switching Frequency Operative Range		100		200	KHz
B_F	Zero Signal Frequency Constant (***)			1.4x10^9		HzΩ
R_F	Frequency Controller Resistor Range (****)		7	12	14	KΩ
MUTE & STAND-BY FUNCTIONS						
$V_{ST\text{-}BY}$	Stand-by range				0.8	V
V_{MUTE}	Mute Range		1.8		2.5	V
V_{PLAY}	Play Range (1)		4			V
A_{MUTE}	Mute Attenuation		60	80		dB
$I_{qST\text{-}BY}$	Quiescent Current @ Stand-by			3	5	mA

*: The output average power when the amplifier is playing music can be considered roughly 1/10 of the maximum output power. So it is useful to consider the dissipated power in this condition for thermal dimensioning.

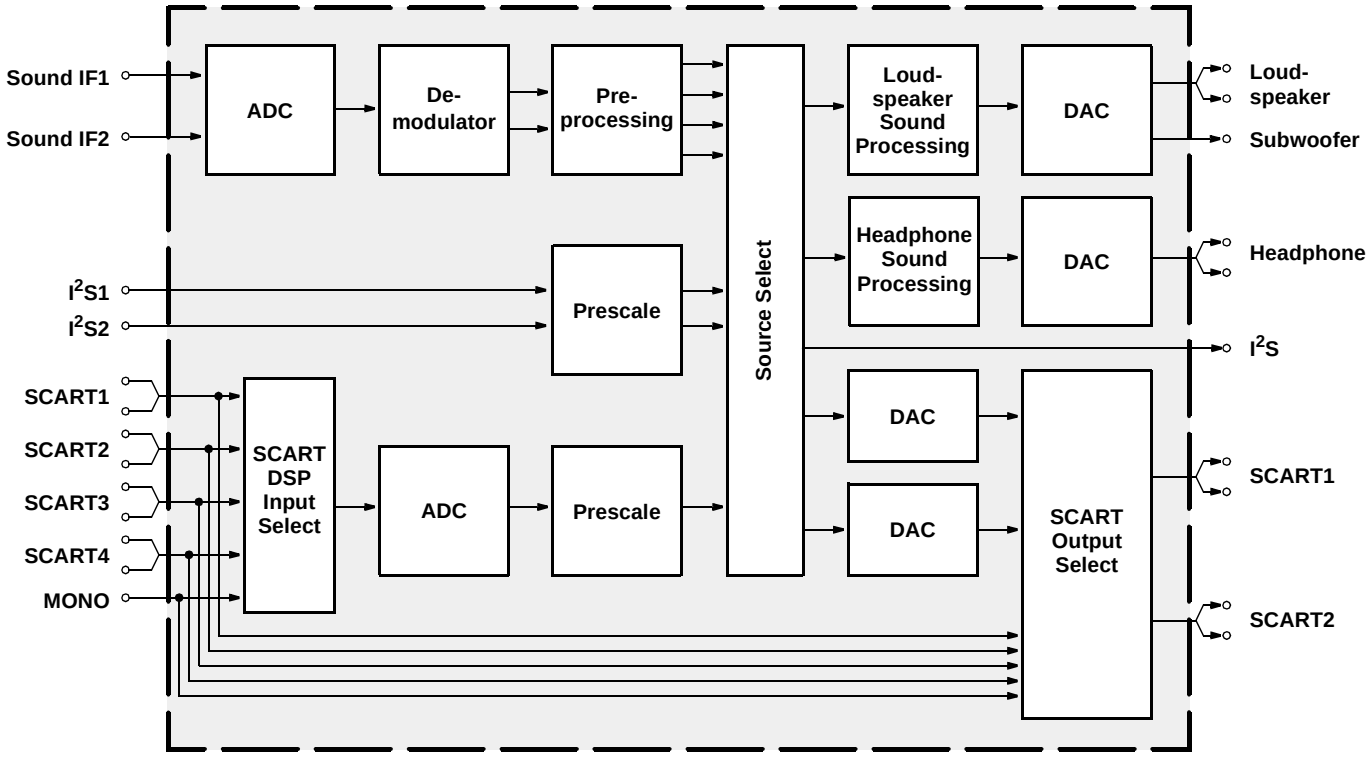
**: P_O = measured across the load using the following inductor:
COIL 58120 MPPA2 (magnetics) TURNS: 28 ∅ 1mm
COIL77120 KOOL Mµ (magnetics) TURNS: 28 ∅ 1mm

***: The zero-signal switching frequency can be obtained using the following expression: $F_{SW} = B_F/R_F$

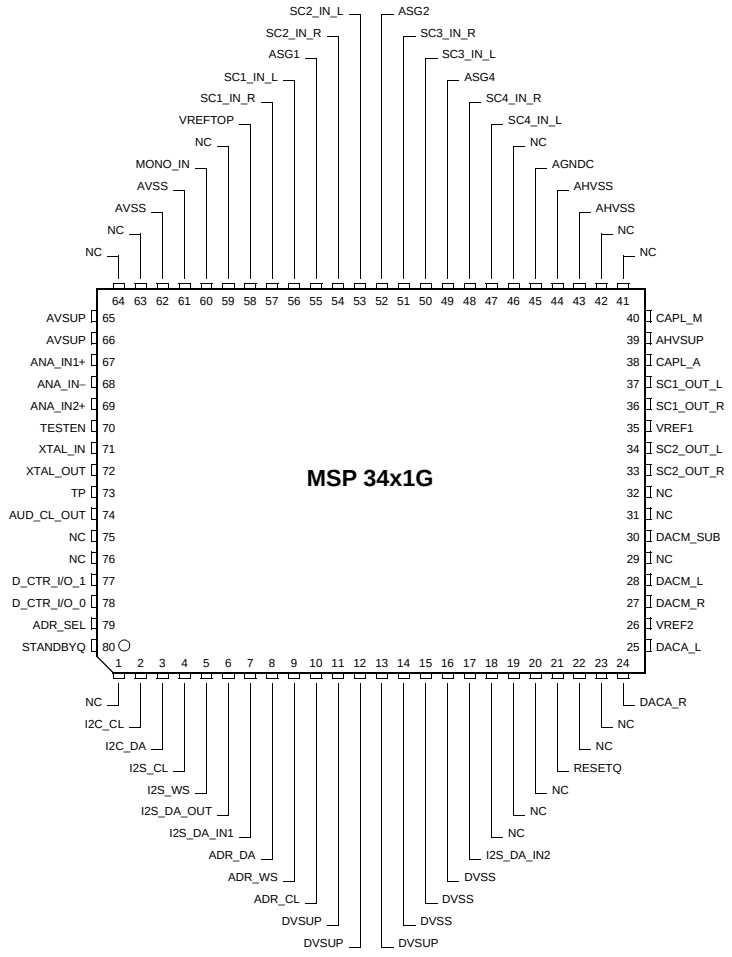
****: The maximum value of R_F is related to the maximum possible value for the voltage drop on R_F itself.

(1): For V_{12} >5.2V, an input impedance of 10KΩ is to be considered.

ICs ADITIONAL INFORMATION: MSP3401G (IC303)



Block Diagram of the MSP 34x1G



80-pin PQFP package

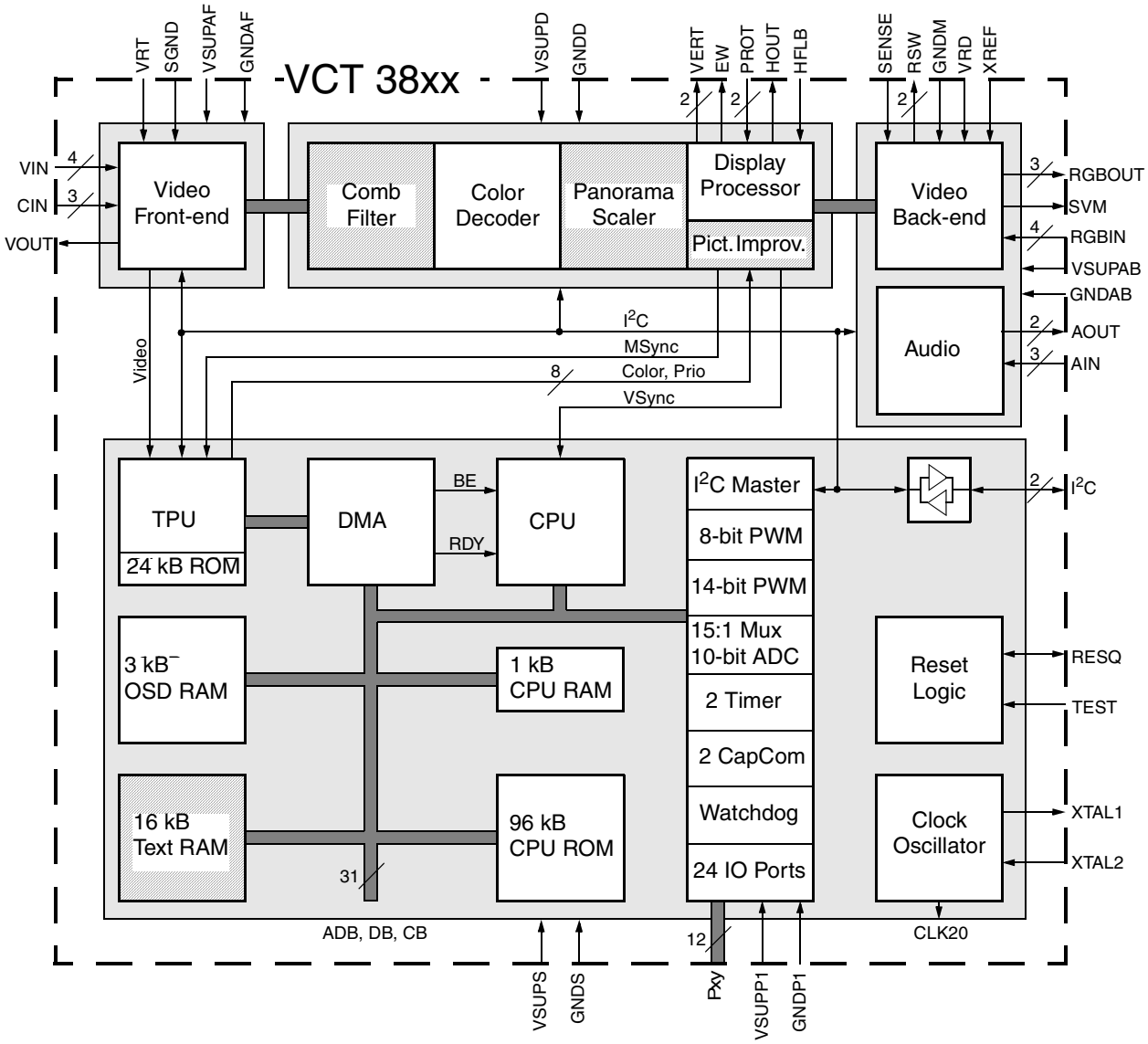
ICs ADITIONAL INFORMATION: MSP3401G (IC303)

Absolute Maximum Ratings

Symbol	Parameter	Pin Name	Min.	Max.	Unit
T_A	Ambient Operating Temperature	–	0	70[1)]	°C
T_S	Storage Temperature	–	–40	125	°C
V_{SUP1}	First Supply Voltage	AHVSUP	–0.3	9.0	V
V_{SUP2}	Second Supply Voltage	DVSUP	–0.3	6.0	V
V_{SUP3}	Third Supply Voltage	AVSUP	–0.3	6.0	V
dV_{SUP23}	Voltage between AVSUP and DVSUP	AVSUP, DVSUP	–0.5	0.5	V
P_{TOT}	Power Dissipation PLCC68 PSDIP64 PSDIP52 PQFP80 PLQFP64	AHVSUP, DVSUP, AVSUP		 1200 1300 1200 1000 960[1)]	 mW mW mW mW mW
V_{Idig}	Input Voltage, all Digital Inputs		–0.3	V_{SUP2}+0.3	V
I_{Idig}	Input Current, all Digital Pins	–	–20	+20	mA[2)]
V_{Iana}	Input Voltage, all Analog Inputs	SCn_IN_s,[3)] MONO_IN	–0.3	V_{SUP1}+0.3	V
I_{Iana}	Input Current, all Analog Inputs	SCn_IN_s,[3)] MONO_IN	–5	+5	mA[2)]
I_{Oana}	Output Current, all SCART Outputs	SCn_OUT_s[3)]	[4), 5)]	[4), 5)]	
I_{Oana}	Output Current, all Analog Outputs except SCART Outputs	DACp_s[3)]	[4)]	[4)]	
I_{Cana}	Output Current, other pins connected to capacitors	CAPL_p,[3)] AGNDC	[4)]	[4)]	

[1)] PLQFP64: 65 °C
[2)] positive value means current flowing into the circuit
[3)] “n” means “1”, “2”, “3”, or “4”, “s” means “L” or “R”, “p” means “M” or “A”
[4)] The analog outputs are short-circuit proof with respect to First Supply Voltage and ground.
[5)] Total chip power dissipation must not exceed absolute maximum rating.

ICs ADITIONAL INFORMATION: VCT3832 (IC1001)

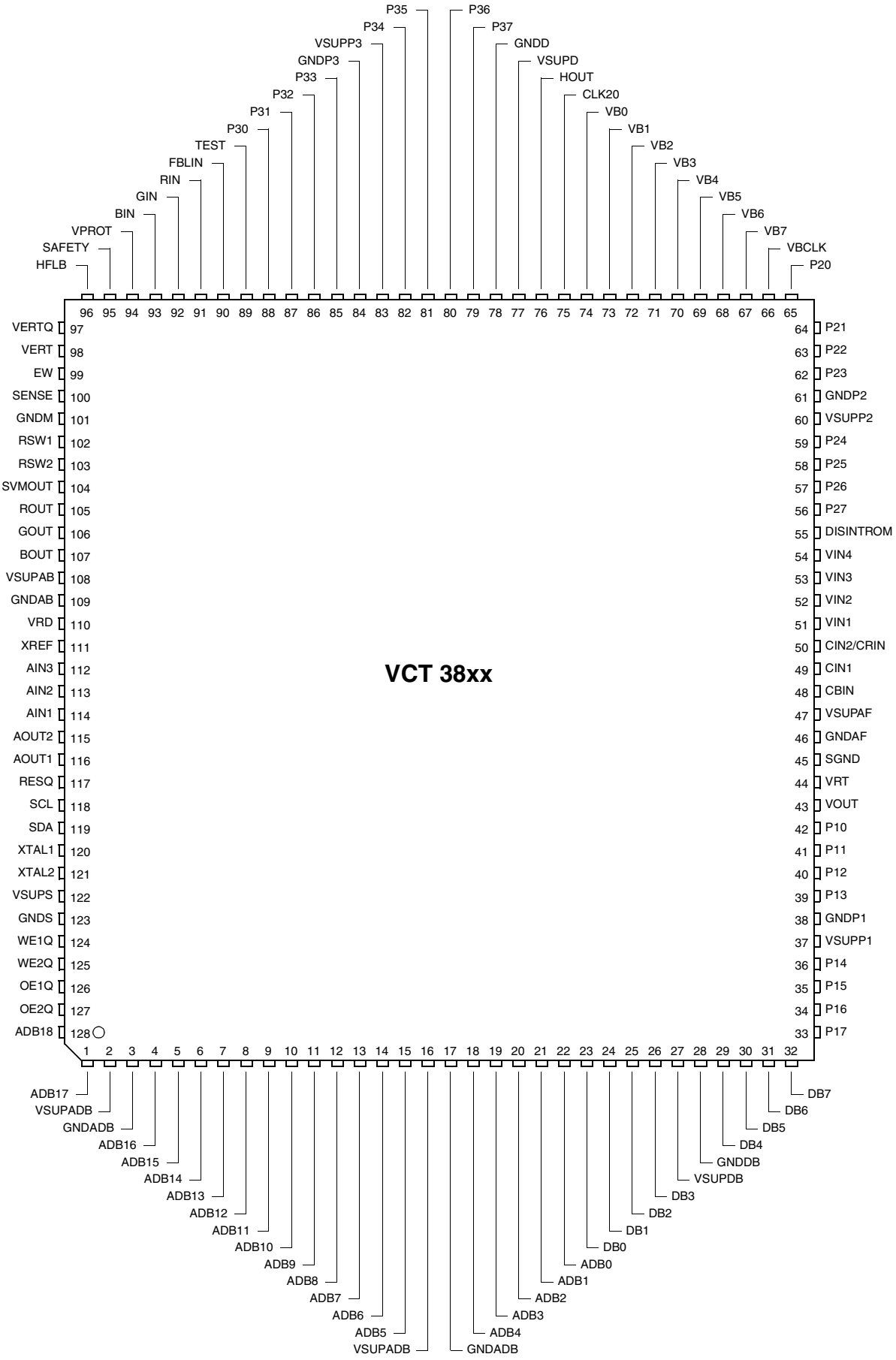


Block diagram of the VCT 38xxA (shaded blocks are optional)

Absolute Maximum Ratings

Symbol	Parameter	Pin Name	Min.	Max.	Unit
T_A	Ambient Operating Temperature		–	65	°C
T_C	Case Temperature (PSDIP64)		–	115	°C
T_C	Case Temperature (PMQFP128)		–	115	°C
T_S	Storage Temperature		–40	125	°C
P_{TOT}	Total Power Dissipation		–	1400	mW
$VSUP_x$	Supply Voltage	$VSUP_x$	–0.3	6	V
V_I	Input Voltage, all Inputs		–0.3	$VSUP_x$+0.3 [1)]	V
V_O	Output Voltage, all Outputs		–0.3	$VSUP_x$+0.3 [1)]	V
V_{IO}	Input/Output Voltage, all Open Drain Outputs		–0.3	6	V

ICs ADITIONAL INFORMATION: VCT3832 (IC1001)



DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.

2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

NOTE:

1. The unit of resistance «ohm»is omitted (K=1000 ohms. M= Megaohm).
2. All resistors are 1/8 watt. unless otherwise noted.
3. All capacitors are mF, unless otherwise noted (P= mmF).
4. The capacitor with Part No. RC-FZ9XXXBMNJ is designed to with stand 63V.
5. The capacitor with Part No. RC-FZ4XXXBMNJ is designed to with stand 50V.

IMPORTANT SAFETY NOTE:

PARTS MARKED WITH «⚠ » ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (–•–•–) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.
WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

CAUTION
This circuit diagram is original one, therefore there may be light difference from yours.

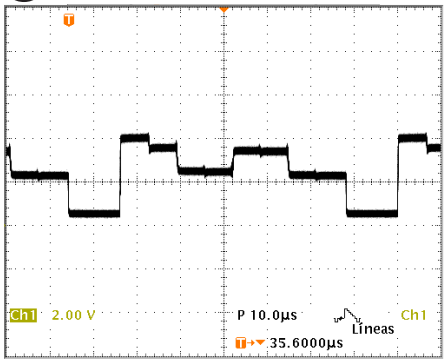
WAVEFORMS MEASUREMENT:

1. TEST EQUIPMENT: Digital Oscilloscope (Tektronix TDS 3012).

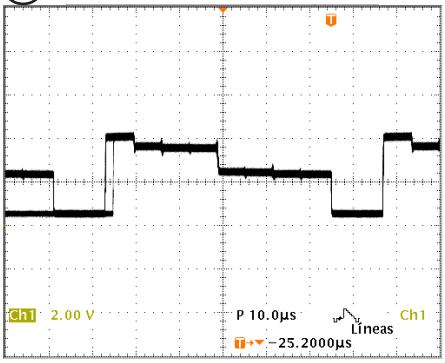
2. TEST CONDITIONS: PAL B/G full colour bar, 1KHz sinewave (volume regulation 50%).

Note: Waveforms 8 and 11 should be taken with the TV set in Stand-by mode.

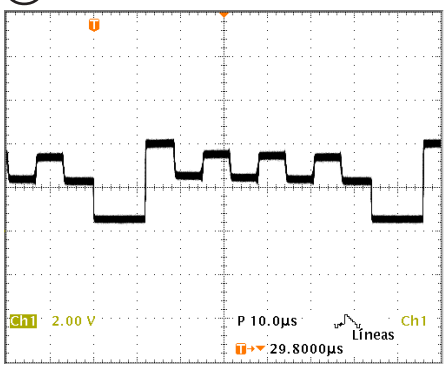
① Red in



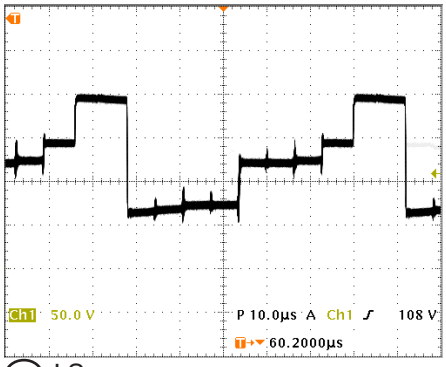
② Green in



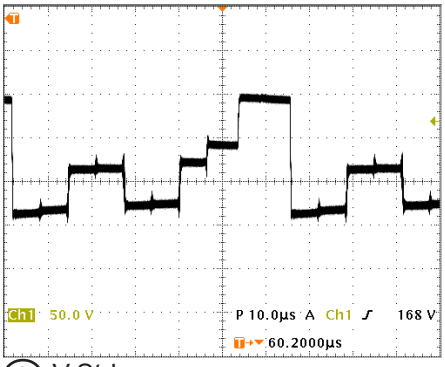
③ Blue in



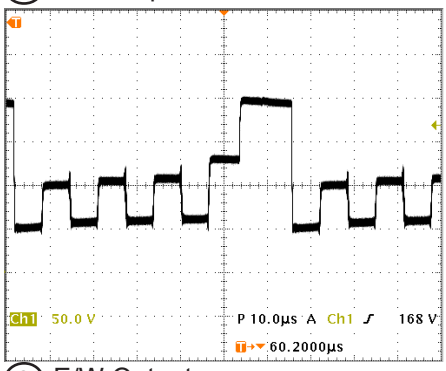
④ Red output



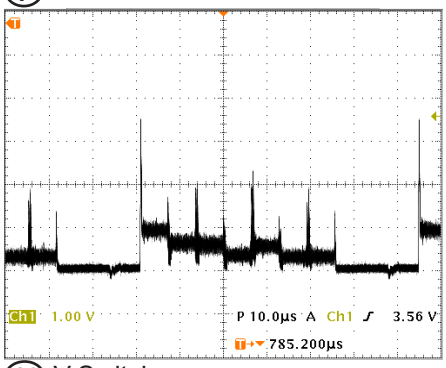
⑤ Green output



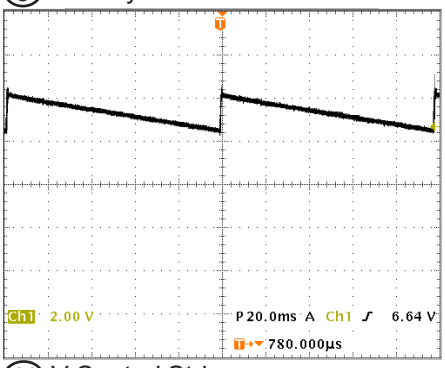
⑥ Blue output



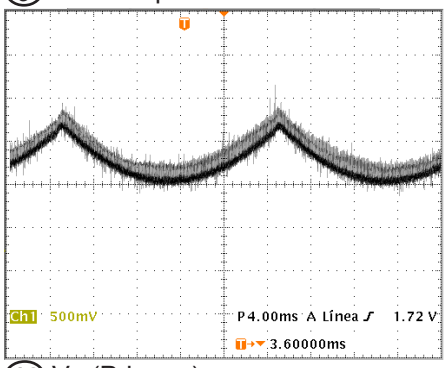
⑦ I Sense



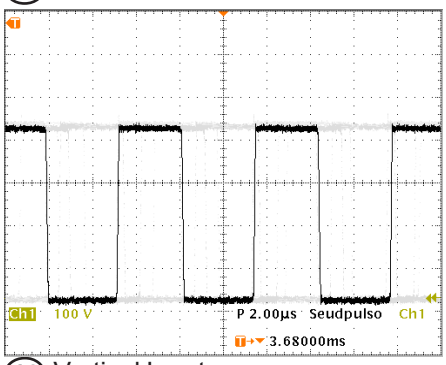
⑧ V St-by



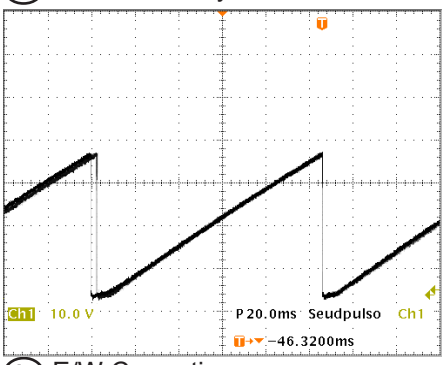
⑨ E/W Output



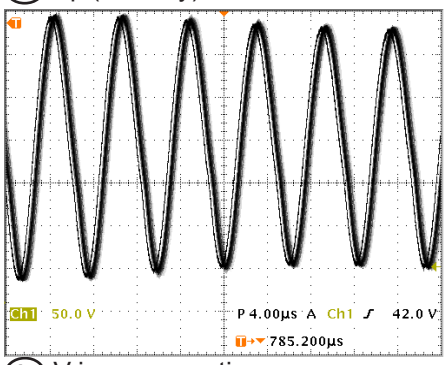
⑩ V Switch



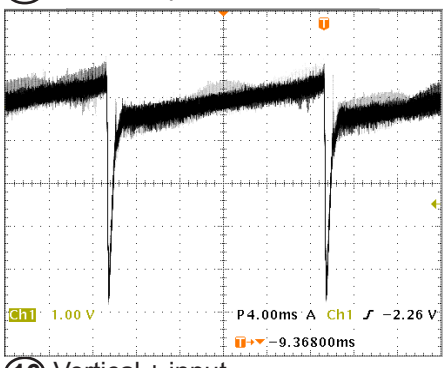
⑪ V Control St-by



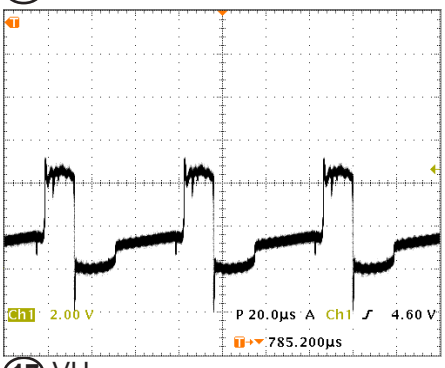
⑫ Vp (Primary)



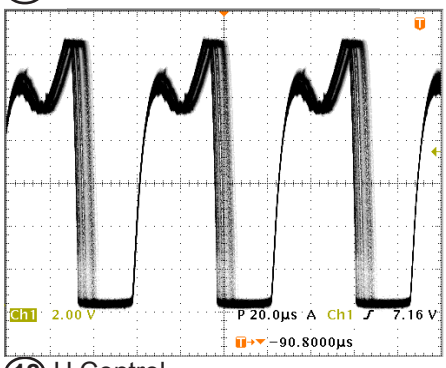
⑬ Vertical Input



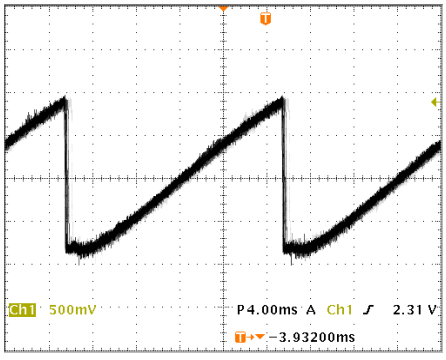
⑭ E/W Correction



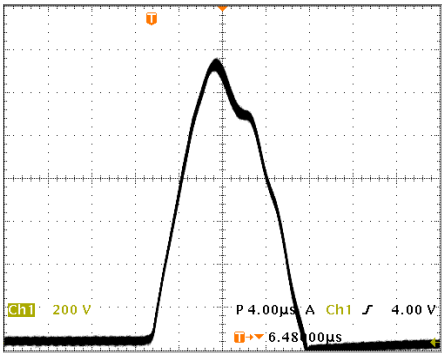
⑮ V inner correction



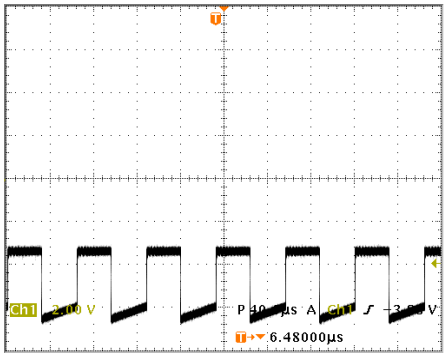
⑯ Vertical + input



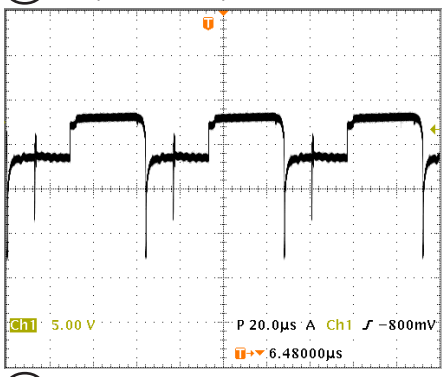
⑰ VH



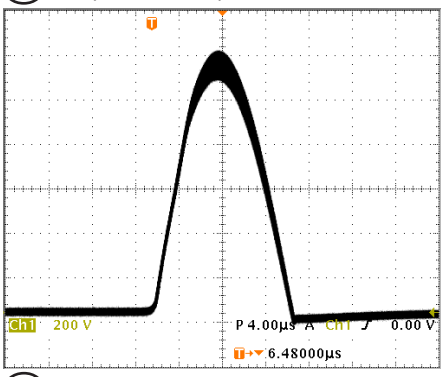
⑱ H Control



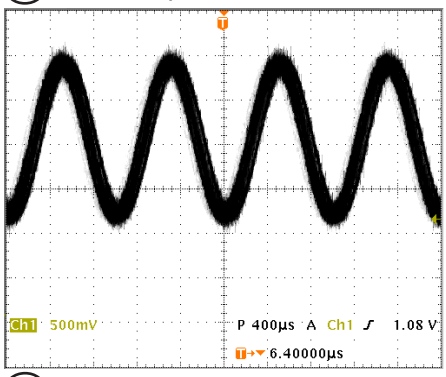
⑲ Vb (Horizontal)



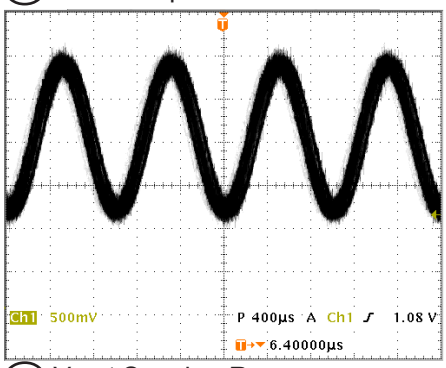
⑳ Vc (Horizontal)



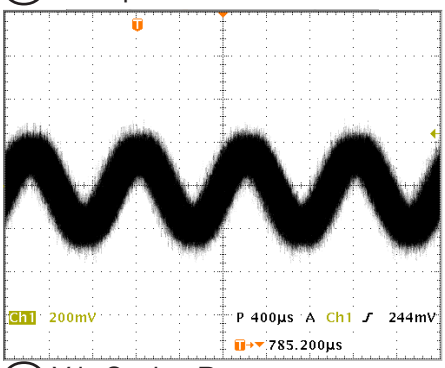
㉑ V in Headphone L



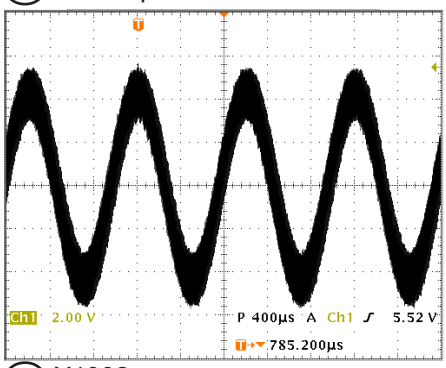
㉒ V in Headphone R



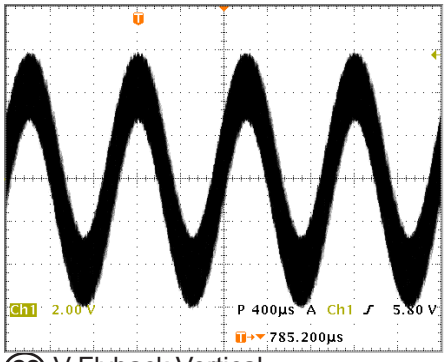
㉓ V in Speaker L



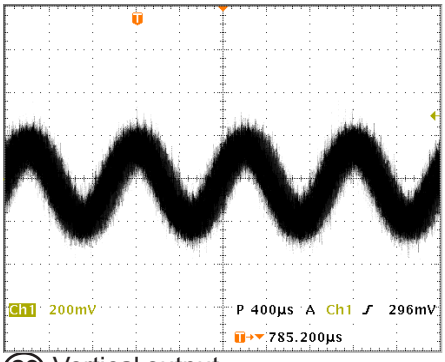
㉔ V out Speaker L



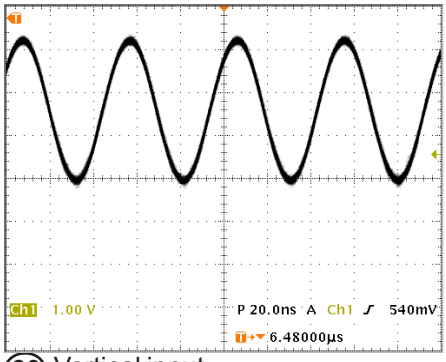
㉕ V out Speaker R



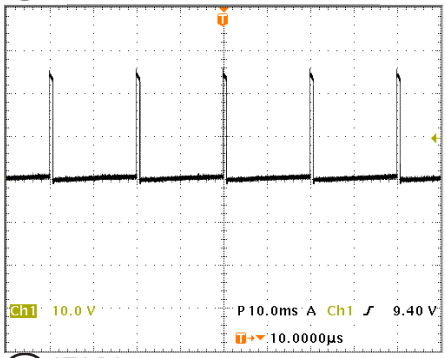
㉖ V in Speker R



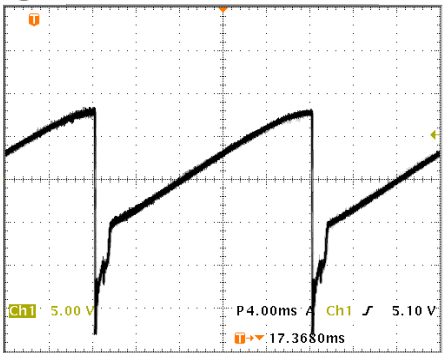
㉗ X1002



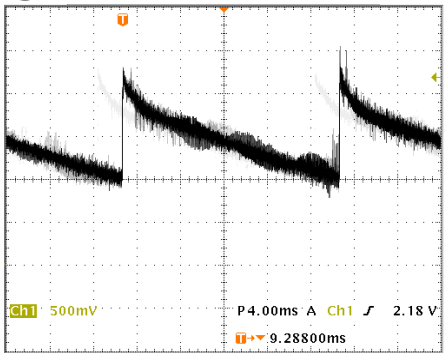
㉘ V Flyback Vertical



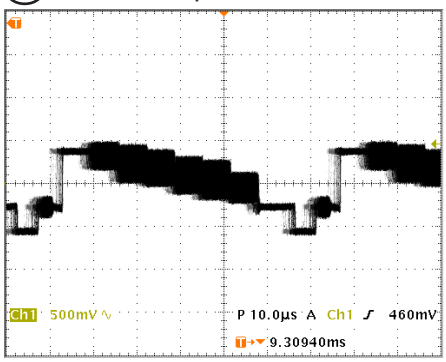
㉙ Vertical output



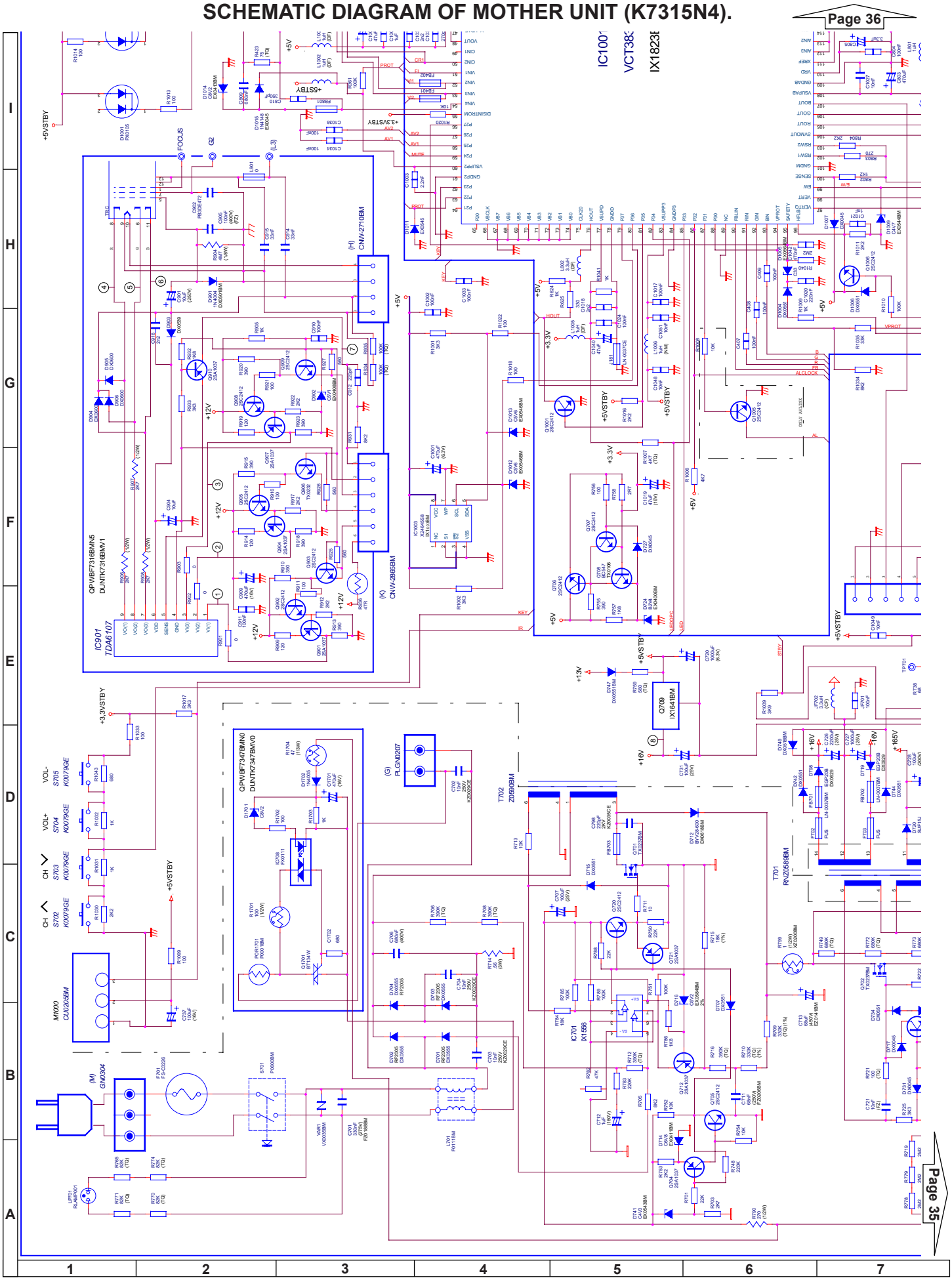
㉚ Vertical input



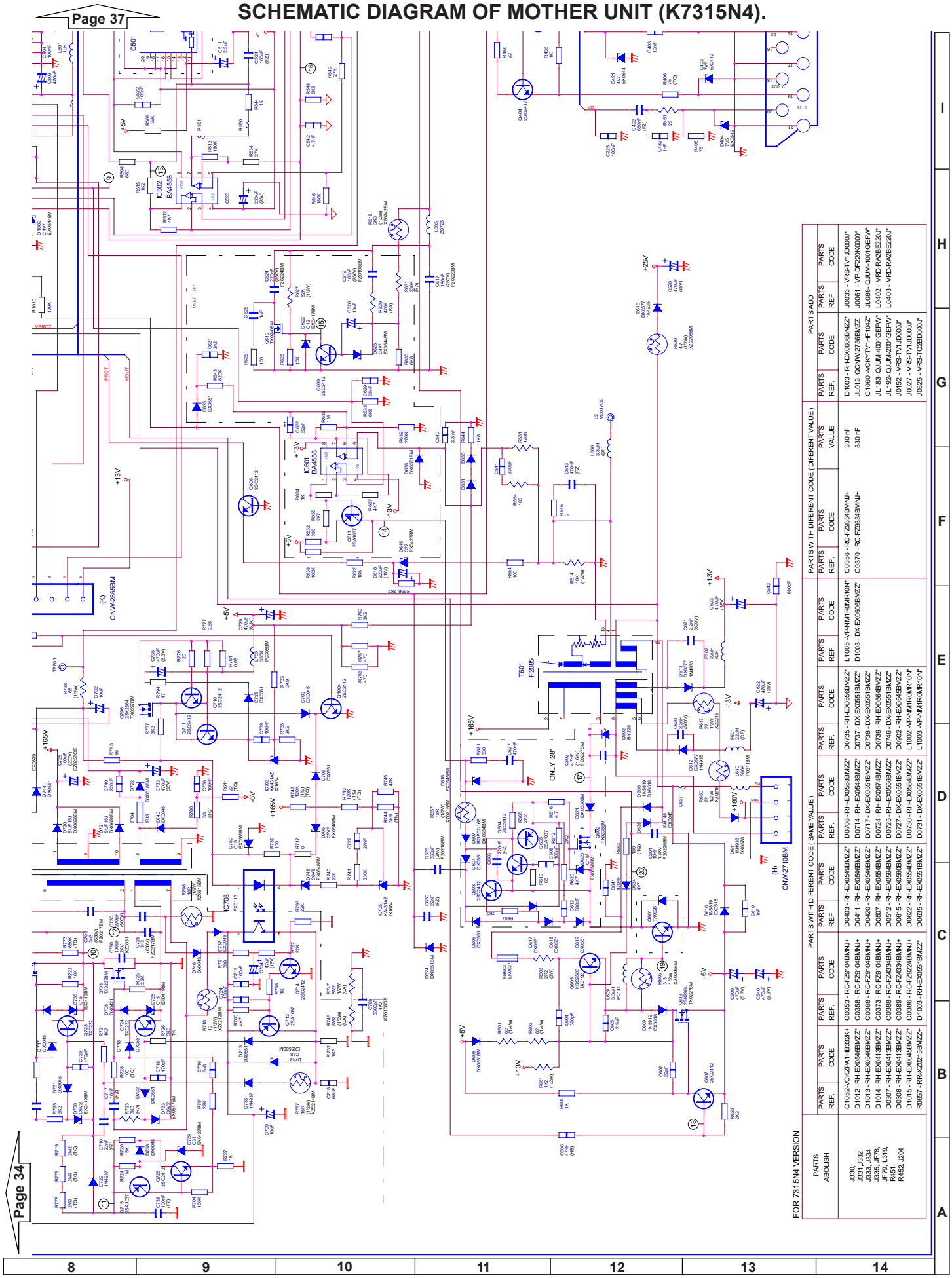
㉛ IF Video output



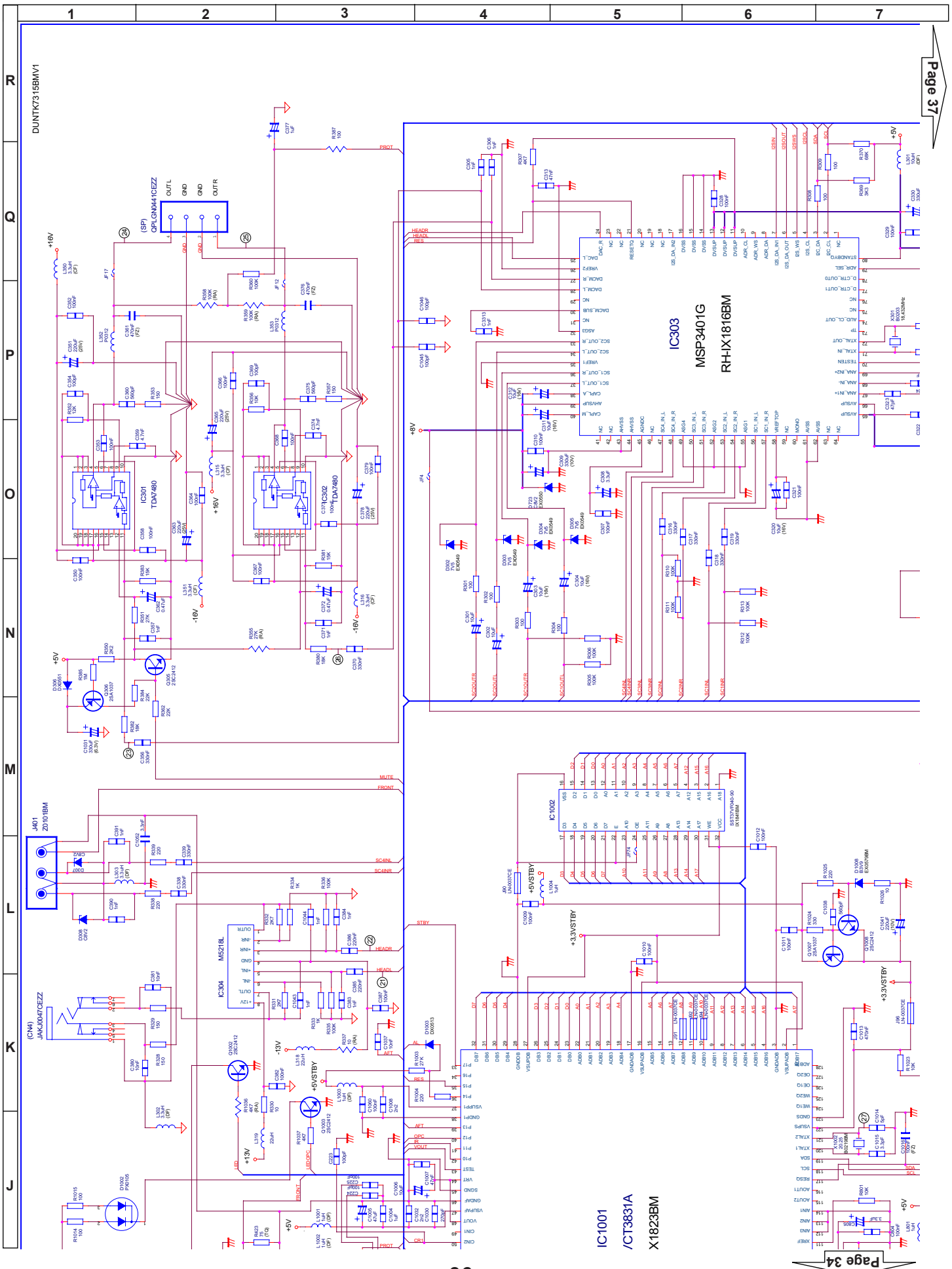
SCHEMATIC DIAGRAM OF MOTHER UNIT (K7315N4).



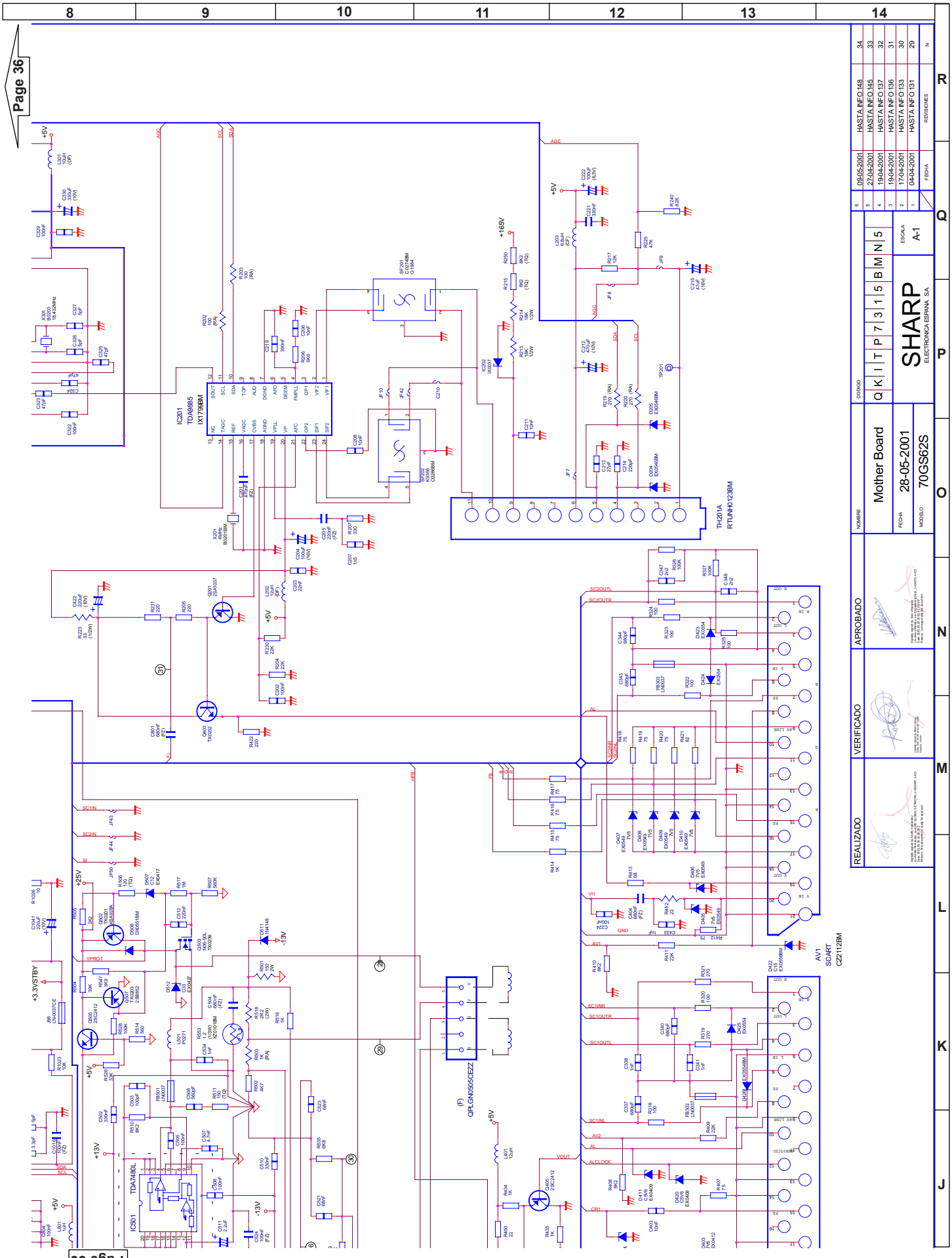
SCHEMATIC DIAGRAM OF MOTHER UNIT (K7315N4).



SCHEMATIC DIAGRAM OF MOTHER UNIT (K7315N4).



SCHEMATIC DIAGRAM OF MOTHER UNIT (K7315N4) .



PARTS LISTING

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by ⚠ in the Replacement Part List.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.
Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promplty and corretly please supply the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

MARK *: SPARE PARTS DELIVERY SECTION

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
			PICTURE TUBE			
⚠		VB66EHJ4338*N	CRT 28" 50HZ IRON THOMSON	S	CD	CQ
⚠		CCILG0404BMV0	DEG COIL SET NUCTOR 28"	S	AM	AV
			PRINTED WIRING BOARDS (Not replacement item)			
	PWB-A	DUNTK7315CJV1	ADJUST CHASSIS 70GS62S	S	BQ	CH
	PWB-B	DUNTK7316BMV1	CRT UNIT INS HAND 70GS62S	S	--	--
	PWB-C	DUNTK7347BMV0	PTC MODULE INS HAND	S	--	--
	PWB-A		**MOTHER UNIT**			
			TUNER			
	TH 0201	RTUNH0123BMZZ	TUNER CTT5020 THOMSON	S	AX	BA
			INTEGRATED CIRCUITS			
	IC 0201	RH-IX1799BMZZ	IC TDA9885 PHILIPS	S	AE	AP
	IC 0202	RH-IX0037CEZZ	IC UPC574J 33V NEC	S	AF	AD
	IC 0301	VHITDA7480/-1	IC TDA7480 THOMSON	S	AF	AK
	IC 0302	VHITDA7480/-1	IC TDA7480 THOMSON	S	AF	AK
	IC 0303	RH-IX1816BMZZ	IC MSP3401G-QA-A2 MICRONAS	S	AQ	BB
	IC 0304	VHIM5218L//-1	IC M5218L	S	AA	**
	IC 0501	RH-IX1786BMZZ	C.I. TDA 7480L THOMSON	S	AD	AL
	IC 0502	VHIBA4558//-1	IC BA4558 SMD	S	AD	AC
	IC 0601	VHIBA4558//-1	IC BA4558 SMD	S	AD	AC
	IC 0701	RH-IX1556BMZZ	IC BA10393 S0P8 SMD ROHM	S	AC	AD
	IC 0702	RH-IX1674BMZZ	IC KA431AZ SAMSUNG	S	AA	AD
⚠	IC 0703	RH-FX0113BMZZ	OPTOCOUPLER TCET1103G VISHAY	S	AA	AC
	IC 0705	RH-IX1674BMZZ	IC KA431AZ SAMSUNG	S	AA	AD
	IC 1001	RH-IX1823BMZZ	IC VCT3831A-QH-A1 128QFP MICRONAS	S	AT	BE
	IC 1002	CH-IX1800CJS0	EPROM SET SOFT 70GS62S	S	AP	BA
	IC 1003	RH-IX1603BMZZ	IC NVM X24645S8 SMD XICOR	S	AS	AV
			TRANSISTORS			
	Q 0201	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0305	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0306	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0403	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0404	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0405	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0502	RH-TX0201BMZZ	TRT KSA928A SAMGUNG	S	AA	AC
	Q 0503	RH-TX0239BMZZ	TRT SUD15N06-90L SILICONIX	S	AA	**
	Q 0505	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0507	RH-TX0203BMZZ	TRT 2SB852 ROHM	S	AA	AB
	Q 0601	RH-TX0226BMZZ	TRT BUH515D ST	S	AD	AK
	Q 0602	CH-TX0238BMV0	TRT SET RH-TX0238 PREFORM	S	--	--
	Q 0603	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0604	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0605	RH-TX0192BMZZ	TRT KSC2500 SAMSUNG	S	AB	AC
	Q 0606	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0607	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0608	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0609	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0610	RH-TX0240BMZZ	TRT 2SK2399 TOSHIBA	S	--	--

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	Q 0611	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0613	RH-TX0227BMZZ	TRT 25K2964 TOSHIBA	S	AA	AD
	Q 0701	CH-TX0237BMV0	TRT SET RH-TX0237 PREFORM	S	--	--
	Q 0702	CH-TX0237BMV0	TRT SET RH-TX0237 PREFORM	S	--	--
	Q 0703	CH-TX0237BMV0	TRT SET RH-TX0237 PREFORM	S	--	--
	Q 0704	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0705	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0706	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0707	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0708	RH-TX0106BMZZ	TRT BC547	S	AA	AB
	Q 0709	RH-IX1847BMZZ	IC L4931CV50 ST	S	--	--
	Q 0710	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0711	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0712	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0713	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0714	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0715	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0720	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0721	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 0723	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0724	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0725	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 0796	RH-TX0227BMZZ	TRT 25K2964 TOSHIBA	S	AA	AD
	Q 1001	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 1002	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 1003	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 1004	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 1005	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 1006	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
	Q 1007	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
	Q 1008	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
			DIODES			
	D 0203	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
	D 0204	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
	D 0205	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
	D 0302	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0303	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0304	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0305	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0306	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0307	RH-EX0413BMZZ	ZENER DIODE BZX79C8V2	S	AB	AB
	D 0308	RH-EX0413BMZZ	ZENER DIODE BZX79C8V2	S	AB	AB
	D 0403	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0404	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0405	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0406	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0407	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0408	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0409	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0410	RH-EX0549BMZZ	ZENER DIODE TZMC7V5 TFK SMD	S	AA	AA
	D 0411	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
	D 0420	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
	D 0421	RH-EX0544BMZZ	ZENER DIODE TZMC4V7 TFK SMD	S	AA	AA
	D 0422	RH-EX0556BMZZ	ZENER DIODO TZMC15 TFK SMD	S	AA	AA
	D 0423	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
	D 0424	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
	D 0425	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
	D 0426	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
	D 0507	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
	D 0508	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0510	RH-DX0577BMZZ	DIODE 1N4935 ACPA	S	AB	AE
	D 0511	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0512	RH-EX0564BMZZ	ZENER DIODE TZMC33 TFK SMD	S	AA	AA
	D 0602	RH-DX0299BMZZ	DIODE BY 228-20	S	AC	AE
	D 0604	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0605	RH-DX0518BMZZ	DIODE 1N5819 G.INSTRUMENTS	S	--	--
	D 0606	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0607	RH-DX0634BMZZ	DIODE RGP02-16E G.SEMICONDUCTOR	S	--	--
	D 0608	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
	D 0609	RH-DX0518BMZZ	DIODE 1N5819 G.INSTRUMENTS	S	--	--
	D 0610	RH-DX0518BMZZ	DIODE 1N5819 G.INSTRUMENTS	S	--	--
	D 0611	RH-DX0578BMZZ	DIODE 1N4936 ACPA	S	AA	AA
	D 0612	RH-DX0577BMZZ	DIODE 1N4935 ACPA	S	AB	AE

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
D 0613	RH-DX0577BMZZ	DIODE 1N4935 ACPA	S	AB	AE
D 0615	RH-EX0560BMZZ	ZENER DIODE TZMC22 TFK SMD	S	AA	AA
D 0616	RH-EX0545BMZZ	ZENER DIODE TZMC5V1 TFK SMD	S	AA	AA
D 0617	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0618	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0619	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0620	RH-EX0558BMZZ	ZENER DIODE TZMC18 TFK SMD	S	AA	AA
D 0621	RH-DX0630BMZZ	DIODE G3M G.SEMICONDUCTOR	S	--	--
D 0622	RH-EX0554BMZZ	ZENER DIODE TZMC12 TFK SMD	S	AA	AA
D 0623	RH-EX0544BMZZ	ZENER DIODE TZMC4V7 TFK SMD	S	AA	AA
D 0624	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0625	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0631	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0633	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0634	RH-EX0407BMZZ	ZENER DIODE BZX79C4V7	S	AA	AA
D 0635	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0636	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0701	RH-DX0555BMZZ	DIODE RF2005 FAGOR	S	AA	AB
D 0702	RH-DX0555BMZZ	DIODE RF2005 FAGOR	S	AA	AB
D 0703	RH-DX0555BMZZ	DIODE RF2005 FAGOR	S	AA	AB
D 0704	RH-DX0555BMZZ	DIODE RF2005 FAGOR	S	AA	AB
D 0705	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
D 0706	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0707	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0708	RH-EX0558BMZZ	ZENER DIODE TZMC18 TFK SMD	S	AA	AA
D 0709	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0712	RH-DX0608BMZZ	DIODE RGP15J G.SEMICONDUCTORES	S	AA	**
D 0713	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0714	RH-EX0548BMZZ	ZENER DIODE TZMC6V8 TFK SMD	S	AA	AA
D 0715	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0716	RH-EX0584BMZZ	ZENER DIODE TZMB6V2 TFK SMD 2%	S	AA	AA
D 0717	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0718	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0719	RH-DX0629BMZZ	DIODE EGP20B G.SEMICONDUCTOR	S	--	--
D 0720	RH-DX0628BMZZ	DIODE SUF15J G.SEMICONDUCTOR	S	--	--
D 0721	RH-DX0628BMZZ	DIODE SUF15J G.SEMICONDUCTOR	S	--	--
D 0722	RH-DX0518BMZZ	DIODE 1N5819 G.INSTRUMENTS	S	--	--
D 0723	RH-EX0550BMZZ	ZENER DIODE TZMC8V2 TFK SMD	S	AA	AA
D 0724	RH-EX0574BMZZ	DIODE ZENER TZMB2V4 TFK SMD 2%	S	AA	AA
D 0725	RH-EX0556BMZZ	ZENER DIODO TZMC15 TFK SMD	S	AA	AA
D 0727	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0728	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0729	RH-DX0579BMZZ	DIODE 1N4937 ACPA	S	AA	AB
D 0730	RH-EX0584BMZZ	ZENER DIODE TZMB6V2 TFK SMD 2%	S	AA	AA
D 0731	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0732	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0733	RH-EX0584BMZZ	ZENER DIODE TZMB6V2 TFK SMD 2%	S	AA	AA
D 0734	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0735	RH-EX0556BMZZ	ZENER DIODO TZMC15 TFK SMD	S	AA	AA
D 0736	RH-DX0579BMZZ	DIODE 1N4937 ACPA	S	AA	AB
D 0737	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0738	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0739	RH-EX0564BMZZ	ZENER DIODE TZMC33 TFK SMD	S	AA	AA
D 0740	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 0741	RH-EX0543BMZZ	ZENER DIODE TZMC4V3 TFK SMD	S	AA	AA
D 0742	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0743	RH-EX0558BMZZ	ZENER DIODE TZMC18 TFK SMD	S	AA	AA
D 0744	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0746	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0747	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 0748	RH-EX0548BMZZ	ZENER DIODE TZMC6V8 TFK SMD	S	AA	AA
D 0749	RH-DX0518BMZZ	DIODE 1N5819 G.INSTRUMENTS	S	--	--
D 0750	RH-EX0556BMZZ	ZENER DIODO TZMC15 TFK SMD	S	AA	AA
D 0798	RH-DX0629BMZZ	DIODE EGP20B G.SEMICONDUCTOR	S	--	--
D 1001	RH-PX0105BMZZ	LED SPB-25MVW ROHM	S	AC	AC
D 1002	RH-PX0105BMZZ	LED SPB-25MVW ROHM	S	AC	AC
D 1003	RH-DX0606BMZZ	DIODE BAS85 PHILIPS SMD	S	AA	AB
D 1004	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 1005	RH-EX0564BMZZ	ZENER DIODE TZMC33 TFK SMD	S	AA	AA
D 1006	RH-DX0551BMZZ	DIODE LL4148 TFK SMD	S	AA	AA
D 1007	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
D 1008	RH-EX0579BMZZ	ZENER DIODE TZMB3V9 TFK SMD 2%	S	AA	AA
D 1009	RH-EX0544BMZZ	ZENER DIODE TZMC4V7 TFK SMD	S	AA	AA
D 1011	RH-EX0545BMZZ	ZENER DIODE TZMC5V1 TFK SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
D 1012	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
D 1013	RH-EX0546BMZZ	ZENER DIODE TZMC5V6 TFK SMD	S	AA	AA
D 1014	RH-EX0413BMZZ	ZENER DIODE BZX79C8V2	S	AB	AB
D 1015	RH-DX0045BMZZ	DIODE 1N4148	S	AA	AA
		PACKAGED CIRCUITS			
X 0201	RCRSB0201BMZZ	CRYSTAL 4 MHZ	S	AK	AM
X 0301	RCRSB0203BMZZ	CRYSTAL 18,432 MHZ	S	AD	AG
X 1002	RCRSB0219BMZZ	CRYSTAL 20.25 HMZ	S	AG	AH
		COILS			
L 0202	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	**
L 0203	VP-CF6R8K0000	PEAK COIL 6.8UH 10%	S	AA	AA
L 0301	VP-DF100K0000	PEAK COIL 10UH 10%	S	AA	**
L 0302	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
L 0303	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
L 0315	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0316	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0318	VP-DF220K0000	PEAK COIL 22UH 10%	S	AB	AB
L 0350	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0351	VP-CF3R3K0000	PEAK COIL 3.3UH 10%	S	AB	AB
L 0352	RCILP0312BMZZ	COIL A823MY-680K=R TOKO	S	--	--
L 0353	RCILP0312BMZZ	COIL A823MY-680K=R TOKO	S	--	--
L 0401	VP-DF120K0000	PEAK COIL 12UH 10%	S	AA	**
L 0402	VRD-RA2BE220J	RES 22 OHM 5% 1/8W	S	AA	AA
L 0403	VRD-RA2BE220J	RES 22 OHM 5% 1/8W	S	AA	AA
L 0501	RCILP0271BMZZ	COIL BC-400/K DIEMEN	S	AD	AG
L 0602	VP-DF3R3K0000	PEAK COIL 3,3UH 10%	S	AB	AB
L 0605	RCILZ0725BMZZ	LINEALITY COIL GA-10 28" PHILIPS	S	--	--
L 0606	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
L 0609	RCILP0144GEZZ	PEAKIG COIL 3.3uH DC2.2A TDK	S	AA	AB
L 0610	RCILP0311BMZZ	COIL A823MY-560K=R TOKO	S	--	--
L 0701	RCILF0111BMZZ	COIL HR-19043	S	AE	AL
L 0705	RCILP0308BMZZ	COIL A823MY-330K=R TOKO	S	--	--
L 0801	VP-DF1R0M0000	PEAK COIL 1UH 20%	S	AA	**
L 1001	VP-DF1R0M0000	PEAK COIL 1UH 20%	S	AA	**
L 1002	VP-NM1R0MR10N	COIL 1UH SMD	S	AB	AB
L 1003	VP-NM1R0MR10N	COIL 1UH SMD	S	AB	AB
L 1004	VP-DF1R0M0000	PEAK COIL 1UH 20%	S	AA	**
L 1005	VP-NM1R0MR10N	COIL 1UH SMD	S	AB	AB
L 1006	VP-NM1R0MR10N	COIL 1UH SMD	S	AB	AB
L 1007	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
L 1008	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
		CERAMIC FILTERS			
SF 0201	RFILC0274BMZZ	SAW FILTER G1984 SIEMENS	S	AF	AK
SF 0202	RFILC0286BMZZ	FILTER K9356M SIEMENS	S	AC	AG
		TRANSFORMERS			
⚠ T 0601	RTRNF2074BMZZ	FBT GA-10 28" DIEMEN (7315N4 & N5 VERSIONS)	S	--	--
⚠ T 0601	RTRNF2085BMZZ	FBT GA-10 28" PHILIPS **(JUST FOR 7315N5 VERSION)**	S	--	--
⚠ T 0701	RTRNZ0582BMZZ	CHOPPER GA-10 28" DIEMEN (7315N4 & N5 VERSIONS)	S	--	--
⚠ T 0701	RTRNZ0589BMZZ	CHOPPER GA-10 28" PHILIPS (7315N4 & N5 VERSIONS)	S	--	--
T 0702	RTRNZ0590BMZZ	PCF GA-10 28" PHILIPS	S	--	--
		CAPACITORS			
C 0201	RC-FZ9474BMNJ	POL FILM C 470NF 5% 63V	S	AB	AD
C 0202	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
C 0203	VCKYTV1HF223Z	CERAM C 22NF 50V 2125SMD	S	AA	**
C 0204	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	**
C 0205	RC-FZ9224BMNJ	POL FILM C 220NF 5% 63V	S	AA	AC
C 0206	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0207	VCKYTV1HB152K	CERAM C 1,5NF 50V 2125SMD	S	AA	**
C 0208	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0210	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
C 0211	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
C 0212	VCEAGA1AW477M	ELEC C 470UF 20% 10V	S	AA	AB
C 0213	VCCCTV1HH270J	CERAM C 27PF 50V 2125SMD	S	AA	AA
C 0214	VCCCTV1HH221J	CERAM C 220PF 50V 2125SMD	S	AA	**
C 0215	VCEAGA1CW476M	ELEC C 47UF 20% 16V	S	AA	**
C 0219	VCCCTV1HH391J	CERAM C 390PF 50V 2125SMD	S	AA	**
C 0221	RC-FZ9334BMNJ	POL FILM C 330NF 5% 63V	S	AA	AC
C 0222	VCEAGA0JW107M	ELEC C 100UF 20% 6,3V	S	AA	**
C 0223	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	**
C 0224	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	**

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	C 0225	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	**
	C 0301	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	**
	C 0302	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	**
	C 0303	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	**
	C 0304	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	**
	C 0305	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0306	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0307	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0308	VCEAGA1HW335M	ELEC C 3,3UF 20% 50V	S	AA	AA
	C 0309	VCEAGA1AW337M	ELEC C 330UF 20% 10V	S	AA	**
	C 0310	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0311	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	**
	C 0312	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	**
	C 0313	VCKYTV1HF473Z	CERAM C 47NF 50V 2125SMD	S	AA	**
	C 0316	RC-FZ9334BMNJ	POL FILM C 330NF 5% 63V	S	AA	AC
	C 0317	RC-FZ9334BMNJ	POL FILM C 330NF 5% 63V	S	AA	AC
	C 0318	RC-FZ9334BMNJ	POL FILM C 330NF 5% 63V	S	AA	AC
	C 0319	RC-FZ9334BMNJ	POL FILM C 330NF 5% 63V	S	AA	AC
	C 0320	VCEAGA1CW106M	ELEC C 10UF 20% 16V	S	AA	**
	C 0321	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0322	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0323	VCCCTV1HH470J	CERAM C 47PF 50V 2125SMD	S	AA	AA
	C 0324	VCCCTV1HH470J	CERAM C 47PF 50V 2125SMD	S	AA	AA
	C 0325	VCCCTV1HH470J	CERAM C 47PF 50V 2125SMD	S	AA	AA
	C 0326	VCCCTV1HH5R0C	CERAM C 5PF 50V 2125SMD	S	AA	AA
	C 0327	VCCCTV1HH5R0C	CERAM C 5PF 50V 2125SMD	S	AA	AA
	C 0328	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0329	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0330	VCEAGA1AW337M	ELEC C 330UF 20% 10V	S	AA	**
	C 0337	VCCCTV1HH681J	CERAM C 680PF 50V 2125SMD	S	AA	**
	C 0338	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0340	VCCCTV1HH681J	CERAM C 680PF 50V 2125SMD	S	AA	**
	C 0341	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0343	VCCCTV1HH681J	CERAM C 680PF 50V 2125SMD	S	AA	**
	C 0344	VCCCTV1HH681J	CERAM C 680PF 50V 2125SMD	S	AA	**
	C 0347	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 0348	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 0350	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0351	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
	C 0352	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0353	RC-FZ9104BMNJ	POL FILM C 100NF 5% 63V	S	AA	AB
	C 0354	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	**
	C 0356	RC-FZ9334BMNJ	POL FILM C 330NF 5% 63V	S	AA	AC
	C 0357	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0358	RC-FZ9104BMNJ	POL FILM C 100NF 5% 63V	S	AA	AB
	C 0359	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
	C 0360	VCCCTV1HH561J	CERAM C 560PF 50V 2125SMD	S	AA	AA
	C 0361	RC-FZ9474BMNJ	POL FILM C 470NF 5% 63V	S	AB	AD
	C 0362	VCEAGA1HW474M	ELEC C 0,47UF 20% 50V	S	AA	**
	C 0363	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
	C 0364	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0365	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
	C 0366	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0367	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0368	RC-FZ9104BMNJ	POL FILM C 100NF 5% 63V	S	AA	AB
	C 0369	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	**
	C 0370	RC-FZ9334BMNJ	POL FILM C 330NF 5% 63V	S	AA	AC
	C 0371	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0372	VCEAGA1HW474M	ELEC C 0,47UF 20% 50V	S	AA	**
	C 0373	RC-FZ9104BMNJ	POL FILM C 100NF 5% 63V	S	AA	AB
	C 0374	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
	C 0375	VCCCTV1HH561J	CERAM C 560PF 50V 2125SMD	S	AA	AA
	C 0376	RC-FZ9474BMNJ	POL FILM C 470NF 5% 63V	S	AB	AD
	C 0377	VCEAGA1HW105M	ELEC C 1UF 20% 50V	S	AA	AA
	C 0378	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
	C 0379	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0380	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0381	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0382	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0383	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0384	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0385	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
	C 0386	RC-FZ9224BMNJ	POL FILM C 220NF 5% 63V	S	AA	AC
	C 0387	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0388	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	**
	C 0389	RC-FZ4334BMNJ	POL FILM C 330nF 50V 5% ECQ-V PANASONIC	S	AA	**
	C 0390	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0391	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0402	RC-FZ9684BMNJ	POL FILM C 680NF 5% 63V	S	AB	AD
	C 0403	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 0404	RC-FZ9684BMNJ	POL FILM C 680NF 5% 63V	S	AB	AD
	C 0407	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0408	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0409	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0422	VCEAGA1AW227M	ELEC C 220UF 20% 10V	S	AA	**
	C 0432	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0433	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0502	VCKYTV1EF334Z	CERAM C 330NF 25V 2125SMD	S	AA	AB
	C 0503	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	**
	C 0504	RC-FZ9684BMNJ	POL FILM C 680NF 5% 63V	S	AB	AD
	C 0505	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0506	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0507	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
	C 0508	VCCCTV1HH561J	CERAM C 560PF 50V 2125SMD	S	AA	AA
	C 0510	VCKYTV1EF334Z	CERAM C 330NF 25V 2125SMD	S	AA	AB
	C 0511	VCEAGA1HW225M	ELEC C 2,2UF 20% 50V	S	AA	AB
	C 0512	VCKYTV1EF224Z	CERAM C 220NF 25V 2125SMD	S	AA	AA
	C 0520	VCEAHA1VN477M	ELEC 470UF 20% 35V 105ºC	S	AA	**
	C 0521	VCKYTV1HB683K	CERAM C 68NF 50V 2125SMD	S	AA	AA
	C 0522	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0523	VCKYTV1HB683K	CERAM C 68NF 50V 2125SMD	S	AA	AA
	C 0524	RC-FZ9104BMNJ	POL FILM C 100NF 5% 63V	S	AA	AB
	C 0526	VCEAGA1EW227M	ELEC C 220UF 20% 25V	S	AA	AA
	C 0534	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0540	VCKYTV1HB332K	CERAM C 3,3NF 50V 2125SMD	S	AA	**
	C 0541	VCCCTV1HH331J	CERAM C 330PF 50V 2125SMD	S	AA	AA
	C 0542	VCKYTV1HB472K	CERAM C 4,7NF 50V 2125SMD	S	AA	AA
	C 0543	VCCCTV1HH681J	CERAM C 680PF 50V 2125SMD	S	AA	**
	C 0601	RC-FZ0228BMZZ	CAP. 10NF 1,6KC RM15 EPCOS	S	--	--
	C 0602	RC-FZ0227BMZZ	CAP. 4n7 1,6KC RM15 EPCOS	S	--	--
	C 0603	RC-FZ9224BMNJ	POL FILM C 220NF 5% 63V	S	AA	AC
	C 0604	VCCCTV1HH391J	CERAM C 390PF 50V 2125SMD	S	AA	**
	C 0605	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 0606	VCKYTV1HB473K	CERAM C 47NF 50V 2125SMD	S	AA	AA
	C 0607	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	**
	C 0608	VCKYTV1HB104K	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0609	VCEAGA0JW477M	ELEC C 470UF 20% 6,3V	S	AA	**
	C 0610	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 0612	VCCCTV1HH681J	CERAM C 680PF 50V 2125SMD	S	AA	**
	C 0613	RC-FZ9474BMNJ	POL FILM C 470NF 5% 63V	S	AB	AD
	C 0617	RC-FZ0229BMZZ	CAP. 180NF 250V RM15 EPCOS	S	--	--
	C 0618	VCEAGA1CW227M	ELEC C 220UF 20% 16V	S	AA	**
	C 0619	RC-FZ0198BMZZ	POL C 100NF 10% 250V 222236545104 BC	S	AA	**
	C 0620	VCKYPA2HB222K	CERAM C 2,2NF 10% 500V	S	AA	**
	C 0621	VCKYPA2HB222K	CERAM C 2,2NF 10% 500V	S	AA	**
	C 0622	VCEAGA1EW477M	ELEC C 470UF 20% 25V	S	AA	**
	C 0623	VCEAGA1VW477M	ELEC C 470UF 20% 35V	S	AA	**
	C 0624	RC-FZ6224BMNJ	PP FILM C 220NF 250V EPCOS	S	--	--
	C 0625	RC-FZ9102BMNJ	POL FILM C 1NF 5% 63V	S	AA	AB
	C 0626	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	**
	C 0627	RC-FZ9474BMNJ	POL FILM C 470NF 5% 63V	S	AB	AD
	C 0628	RC-FZ0216BMZZ	POL C 330PF 2KV 222237544331 BC	S	AA	**
	C 0629	VCKYTV1HF683Z	CERAM C 68NF 50V 2125SMD	S	AA	**
	C 0630	RC-FZ9223BMNJ	POL FILM C 22NF 5% 63V	S	AA	AB
	C 0631	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 0632	VCCCTV1HH220J	CERAM C 22PF 50V 2125SMD	S	AA	**
	C 0640	VCEAGA0JW477M	ELEC C 470UF 20% 6,3V	S	AA	**
	C 0641	VCKYTV1CF474Z	CERAM C 470NF 16V 2125SMD	S	AA	AA
⚠	C 0701	RC-FZ0188BMZZ	C B81130-C1334-M 330NF 275V X2 SIEMENS	S	AA	**
	C 0702	RC-KZ0029CEZZ	CERAM C 10NF 80,20% 250V	S	AC	AC
	C 0703	RC-KZ0029CEZZ	CERAM C 10NF 80,20% 250V	S	AC	AC
	C 0704	RC-KZ0029CEZZ	CERAM C 10NF 80,20% 250V	S	AC	AC
	C 0705	RC-FZ0217BMZZ	FILM PP C 3N3 630V 222 375 16332 BC	S	AA	**
	C 0706	RC-FZ7684BMNJ	PP FILM C 680NF 5% 400V	S	AE	AH
	C 0707	VCEAGA1EW107M	ELEC C 100UF 20% 25V	S	AA	**
	C 0709	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	**
	C 0710	RC-FZ9223BMNJ	POL FILM C 22NF 5% 63V	S	AA	AB
	C 0711	RC-FZ0206BMZZ	C POL 68NF 5% 250V 2222 365 46683 BC	S	AA	**

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	C 0712	VCEAGA2CW105M	ELEC C 1UF 20% 160V	S	AA	AB
	C 0713	RC-EZ0141BMZZ	ELEC C 68UF 450V	S	AD	AL
	C 0715	VCKYTV1HB683K	CERAM C 68NF 50V 2125SMD	S	AA	AA
	C 0716	VCKYTV1HB682K	CERAM C 6,8NF 50V 2125SMD	S	AA	AA
	C 0717	RC-FZ9103BMNJ	POL FILM C 10NF 5% 63V	S	AA	AB
	C 0718	VCCCTV1HH471J	CERAM C 470PF 50V 2125SMD	S	AA	**
	C 0719	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0720	VCEAGA0JW108M	ELEC C 1000UF 20% 6,3V	S	AA	**
	C 0721	RC-FZ9103BMNJ	POL FILM C 10NF 5% 63V	S	AA	AB
	C 0722	VCKYTV1HB273K	CERAM C 27NF 50V 2125SMD	S	AA	AA
	C 0723	VCCCTV1HH471J	CERAM C 470PF 50V 2125SMD	S	AA	**
	C 0724	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0725	RC-FZ0217BMZZ	FILM PP C 3N3 630V 222 375 16332 BC	S	AA	**
	C 0726	VCEAGA1EW228M	ELEC C 2200UF 20% 25V	S	AB	**
	C 0727	VCEAGA1EW108M	ELEC C 1000UF 20% 25V	S	AD	AD
	C 0728	RC-EZ0258CEZZ	ELEC C 100MF 200V	S	AC	AK
	C 0729	VCEAGA0JW477M	ELEC C 470UF 20% 6,3V	S	AA	**
	C 0730	VCKYPA2HB271K	CERAM C 270PF 10% 500V	S	AA	**
	C 0731	VCEAGA1EW107M	ELEC C 100UF 20% 25V	S	AA	**
	C 0732	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	**
	C 0733	VCEAHA1VN477M	ELEC 470UF 20% 35V 105ºC	S	AA	**
	C 0734	VCEAGA1CW476M	ELEC C 47UF 20% 16V	S	AA	**
	C 0735	VCEAGA0JW477M	ELEC C 470UF 20% 6,3V	S	AA	**
	C 0736	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0737	VCEAGA1CW107M	ELEC C 100UF 20% 16V	S	AA	**
	C 0738	RC-FZ9104BMNJ	POL FILM C 100NF 5% 63V	S	AA	AB
	C 0739	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0740	VCCCTV1HH221J	CERAM C 220PF 50V 2125SMD	S	AA	**
	C 0796	RC-KZ0031CEZZ	CERAM C 100PF 2KV	S	AA	**
	C 0798	RC-KZ0035CEZZ	CERAM C 220PF 2KV	S	AA	AC
⚠	C 0799	RC-KZ0106GEZZ	CERAM C DE1410 E332M-KX	S	AB	AC
	C 0801	RC-FZ9684BMNJ	POL FILM C 680NF 5% 63V	S	AB	AD
	C 0803	VCEAGA1AW477M	ELEC C 470UF 20% 10V	S	AA	AB
	C 0804	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0805	VCEAGA1HW335M	ELEC C 3,3UF 20% 50V	S	AA	AA
	C 0809	RC-FZ4684BMNJ	POL FILM C 680nF 50V 5% ECQ-V PANASONIC	S	AA	**
	C 0810	VCKYTV1HB391K	CERAM C 390PF 50V 2125SMD	S	AA	**
	C 1001	VCEAGA0JW477M	ELEC C 470UF 20% 6,3V	S	AA	**
	C 1002	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1003	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 1004	VCKYTV1CF105Z	CERAM C 1UF 16V 2125SMD	S	AA	**
	C 1005	VCEAGA1HW476M	ELEC C 47UF 20% 50V	S	AA	**
	C 1006	VCEAGA1HW106M	ELEC C 10UF 20% 50V	S	AA	**
	C 1007	VCKYTV1HF473Z	CERAM C 47NF 50V 2125SMD	S	AA	**
	C 1008	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 1009	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1010	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1011	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1012	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1013	VCKYTV1CF474Z	CERAM C 470NF 16V 2125SMD	S	AA	AA
	C 1014	VCCCTV1HH5R0C	CERAM C 5PF 50V 2125SMD	S	AA	AA
	C 1015	VCCCTV1HH3R3C	CERAM C 3,3PF 50V 2125SMD	S	AA	AA
	C 1016	RC-FZ9104BMNJ	POL FILM C 100NF 5% 63V	S	AA	AB
	C 1017	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1018	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 1019	VCEAGA1CW476M	ELEC C 47UF 20% 16V	S	AA	**
	C 1020	VCKYTV1HF224Z	CERAM C 220NF 50V 2125SMD	S	AA	**
	C 1021	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 1022	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1024	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1027	VCKZPA1HF103Z	CERAM C 10NF % 50V	S	AA	**
	C 1030	VCCCTV1HH271J	CERAM C 270PF 50V 2125SMD	S	AA	AA
	C 1031	VCEAGA0JW337M	ELEC C 330UF 20% 6,3V	S	AA	**
	C 1032	VCKYTV1HB222K	CERAM C 2,2NF 50V 2125SMD	S	AA	AA
	C 1033	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1034	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1036	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1037	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 1038	VCCCTV1HH561J	CERAM C 560PF 50V 2125SMD	S	AA	AA
	C 1040	VCEAGA1HW476M	ELEC C 47UF 20% 50V	S	AA	**
	C 1041	VCEAGA1AW227M	ELEC C 220UF 20% 10V	S	AA	**
	C 1042	VCKYTV1CF474Z	CERAM C 470NF 16V 2125SMD	S	AA	AA
	C 1043	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 1044	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
	C 1045	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	**
	C 1046	VCCCTV1HH101J	CERAM C 100PF 50V 2125SMD	S	AA	**
	C 1048	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 1049	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 1050	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 1051	VCKYTV1HF103Z	CERAM C 10NF 50V 2125SMD	S	AA	AA
	C 1052	VCKZPA1HB332K	CERAM C 3,3NF 10% 50V	S	AA	AA
	C 1060	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 3313	VCKYTV1HB102K	CERAM C 1NF 50V 2125SMD	S	AA	AA
			RESISTORS			
	R 0202	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 0203	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
	R 0204	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0205	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0206	VRS-TV1JD562J	2125 5,6KOHM 5% 1/10W SMD	S	AA	AA
	R 0207	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	**
	R 0213	VRD-RA2HD183J	RES 18KOHM 5% 1/2W	S	AA	**
	R 0214	VRD-RA2HD183J	RES 18KOHM 5% 1/2W	S	AA	**
	R 0215	VRS-TQ2BD822J	OX RE 8,2KOHM 5% 1/8W SMD	S	AA	**
	R 0217	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
	R 0219	VRD-RA2BE271J	RES 270 OHM 5% 1/8W	S	AA	**
	R 0220	VRD-RA2BE271J	RES 270 OHM 5% 1/8W	S	AA	**
	R 0223	VRD-RA2HD330J	RES 33 OHM 5% 1/2W	S	AA	**
	R 0225	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0230	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0231	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0240	VRS-TV1JD823J	2125 82KOHM 5% 1/10W SMD	S	AA	AA
	R 0250	VRS-TQ2BD822J	OX RE 8,2KOHM 5% 1/8W SMD	S	AA	**
	R 0301	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0302	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0303	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0304	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0305	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0306	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0307	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 0308	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0309	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0310	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0311	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0312	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0313	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0318	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0319	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
	R 0320	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0321	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
	R 0322	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0323	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0324	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0325	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0326	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0327	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0328	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
	R 0329	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
	R 0330	VRS-TV1JD100J	2125 10 OHM 5% 1/10W SMD	S	AA	**
	R 0331	VRS-TV1JD272J	2125 2,7KOHM 5% 1/10W SMD	S	AA	**
	R 0332	VRS-TV1JD272J	2125 2,7KOHM 5% 1/10W SMD	S	AA	**
	R 0333	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0334	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0335	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0336	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0337	VRD-RA2BE100J	RES 10 OHM 5% 1/8W	S	AA	AA
	R 0338	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0339	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 0350	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
	R 0351	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	**
	R 0352	VRS-TV1JD123J	2125 12KOHM 5% 1/10W SMD	S	AA	AA
	R 0353	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
	R 0355	VRD-RA2BE273J	RES 27KOHM 5% 1/8W	S	AA	**
	R 0356	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0357	VRS-TV1JD151J	2125 150 OHM 5% 1/10W SMD	S	AA	AA
	R 0358	VRD-RA2BE104J	RES 100KOHM 5% 1/8W	S	AA	**
	R 0359	VRD-RA2BE104J	RES 100KOHM 5% 1/8W	S	AA	**
	R 0360	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 0361	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0362	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
R 0369	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	**
R 0370	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	**
R 0380	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S	AA	AA
R 0381	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
R 0382	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S	AA	AA
R 0383	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
R 0384	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
R 0385	VRS-TV1JD105J	2125 1MOHM 5% 1/10W SMD	S	AA	AA
R 0387	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
R 0405	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	**
R 0406	VRS-TQ2BD750J	OX RE 75 OHM 5% 1/8W SMD	S	AA	AA
R 0407	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	**
R 0408	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0409	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
R 0410	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0411	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
R 0412	VRS-TQ2BD750J	OX RE 75 OHM 5% 1/8W SMD	S	AA	AA
R 0413	VRS-TQ2BD680J	OX RE 68 OHM 5% 1/8W SMD	S	AA	**
R 0414	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0415	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	**
R 0416	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	**
R 0417	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	**
R 0418	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	**
R 0419	VRS-TQ2BD750J	OX RE 75 OHM 5% 1/8W SMD	S	AA	AA
R 0420	VRS-TV1JD750J	2125 75 OHM 5% 1/10W SMD	S	AA	**
R 0421	VRS-TV1JD820J	2125 82 OHM 5% 1/10W SMD	S	AA	AA
R 0422	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 0423	VRS-TQ2BD750J	OX RE 75 OHM 5% 1/8W SMD	S	AA	AA
R 0434	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0435	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0450	VRS-TV1JD220J	2125 22 OHM 5% 1/10W SMD	S	AA	**
R 0501	VRS-VV3DB151J	MET OX RES 150 OHM 5% 2W	S	AA	AA
R 0502	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0503	VRD-RA2BE102J	RES 1KOHM 5% 1/8W	S	AA	**
R 0504	VRS-TV1JD393J	2125 39KOHM 5% 1/10W SMD	S	AA	**
R 0505	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
R 0506	VRS-TQ2BD121J	OX RE 120 OHM 5% 1/8W SMD	S	AA	**
R 0507	VRS-TV1JD564J	2125 560KOHM 5% 1/10W SMD	S	AA	**
R 0508	VRS-TV1JD681J	2125 680 OHM 5% 1/10W SMD	S	AA	AA
R 0509	VRS-TV1JD393J	2125 39KOHM 5% 1/10W SMD	S	AA	**
R 0510	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0511	VRS-TQ2BD151J	OX RE 150 OHM 5% 1/8W SMD	S	AA	**
R 0512	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0513	VRS-TV1JD184J	2125 180KOHM 5% 1/10W SMD	S	AA	**
R 0514	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
R 0515	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
R 0516	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0517	VRS-TV1JD105J	2125 1MOHM 5% 1/10W SMD	S	AA	AA
R 0518	VRN-LU3DB2R2J	SET MET FILM 2,2 OHM 5% 2W LW	S	AA	AB
R 0526	VRS-TV1JD333J	2125 33KOHM 5% 1/10W SMD	S	AA	AA
R 0528	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0530	RR-XZ0208BMZZ	FUS RES 4R7 TAP 5% 1/2W	S	AA	AA
R 0531	VRD-RA2BE124J	RES 120KOHM 5% 1/8W	S	AA	**
R 0534	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	**
R 0535	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	**
R 0544	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0545	VRS-TV1JD184J	2125 180KOHM 5% 1/10W SMD	S	AA	**
R 0547	VRS-TV1JD392J	2125 3.9KOHM 5% 1/10W SMD	S	AA	**
R 0548	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	**
R 0549	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	**
R 0550	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0551	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0553	RR-XZ0101BMZZ	FUS RES 1R2 TAP 5% 1/3W	S	AA	AB
R 0554	VRD-RA2BE101J	RES 100 OHM 5% 1/8W	S	AA	AA
R 0601	VRD-RA2EE820J	RES 82 OHM 5% 1/4W	S	AA	**
R 0602	VRD-RA2EE820J	RES 82 OHM 5% 1/4W	S	AA	**
R 0603	VRN-LU3LB2R2J	SET MET FILM 2,2 OHM 5% 3W LW	S	AA	AB
R 0604	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0607	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
R 0608	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
R 0609	RR-XZ0206BMZZ	FUS RES 3R3 TAP 5% 1/2W	S	AA	AB
R 0610	VRS-TV1JD680J	2125 68 OHM 5% 1/10W SMD	S	AA	**

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
R 0611	VRS-TQ2BD220J	OX RE 22 OHM 5% 1/8W SMD	S	AA	**
R 0612	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
R 0614	VRD-RA2HD103J	RES 10KOHM 5% 1/2W	S	AA	**
R 0616	VRS-TV1JD4R7J	2125 4,7 OHM 5% 1/10W SMD	S	AA	AA
R 0617	RR-XZ0216BMZZ	FUS RES 22R TAP 5% 1/2W	S	AA	AB
R 0618	RR-XZ0242BMZZ	FUS RES 3K3 TAP 5% 1/2W	S	AA	AB
R 0620	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0621	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	**
R 0622	VRS-TV1JD152J	2125 1.5KOHM 5% 1/10W SMD	S	AA	AA
R 0623	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
R 0624	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0625	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	**
R 0626	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0627	VRD-RA2HD823J	RES 82KOHM 5% 1/2W	S	AA	**
R 0628	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0629	VRD-RA2BE474J	RES 470KOHM 5% 1/8W	S	AA	**
R 0630	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	**
R 0631	VRD-RA2HD334J	RES 330KOHM 5% 1/2W	S	AA	**
R 0632	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
R 0633	VRS-TV1JD682J	2125 6.8KOHM 5% 1/10W SMD	S	AA	**
R 0634	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0635	VRS-TV1JD105J	2125 1MOHM 5% 1/10W SMD	S	AA	AA
R 0637	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0638	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0639	VRS-TV1JD274J	2125 270KOHM 5% 1/10W SMD	S	AA	**
R 0643	VRS-TV1JD824J	2125 820KOHM 5% 1/10W SMD	S	AA	**
R 0644	VRS-TV1JD182J	2125 1,8KOHM 5% 1/10W SMD	S	AA	AA
R 0645	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0650	RR-XZ0216BMZZ	FUS RES 22R TAP 5% 1/2W	S	AA	AB
R 0651	VRD-RA2HD122J	RES 1.2KOHM 5% 1/2W	S	AA	AA
R 0653	VRS-TQ2BD181J	OX RE 180 OHM 5% 1/8W SMD	S	AA	**
R 0654	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0655	VRS-TV1JD272J	2125 2,7KOHM 5% 1/10W SMD	S	AA	**
R 0656	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
R 0657	RR-XZ0215BMZZ	FUS RES 18R TAP 5% 1/2W	S	AA	AB
R 0700	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
R 0701	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
R 0703	VRS-TV1JD272J	2125 2,7KOHM 5% 1/10W SMD	S	AA	**
R 0704	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
R 0705	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
R 0706	VRS-TQ2BD394J	OX RE 390KOHM 5% 1/8W SMD	S	AA	**
R 0708	VRS-TQ2BD394J	OX RE 390KOHM 5% 1/8W SMD	S	AA	**
R 0709	VRS-TQ2BD334F	OX RE 330KOHM 1% 1/8W SMD	S	AA	**
R 0710	VRS-TQ2BD334F	OX RE 330KOHM 1% 1/8W SMD	S	AA	**
R 0711	VRS-TV1JD100J	2125 10 OHM 5% 1/10W SMD	S	AA	**
R 0712	VRS-TQ2BD394J	OX RE 390KOHM 5% 1/8W SMD	S	AA	**
R 0713	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0714	VRN-VV3LBR56J	MET FILM R 0,56 OHM 5% 3W	S	AA	AB
R 0715	VRS-TV1JD183F	2125 18KOHM 1% 1/10W SMD	S	AA	**
R 0716	VRS-TQ2BD394J	OX RE 390KOHM 5% 1/8W SMD	S	AA	**
R 0717	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
R 0718	RR-XZ0212BMZZ	FUS RES 10R TAP 5% 1/2W	S	AA	AB
R 0719	VRS-TQ2BD225J	OX RE 2,2MOHM 5% 1/8W SMD	S	AA	**
R 0720	VRS-TV1JD153J	2125 15KOHM 5% 1/10W SMD	S	AA	AA
R 0721	VRS-TQ2BD101J	OX RE 100 0HM 5% 1/8W SMD	S	AA	AA
R 0722	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
R 0723	VRD-RA2BE332J	RES 3,3KOHM 5% 1/8W	S	AA	**
R 0724	VRS-TV1JD105J	2125 1MOHM 5% 1/10W SMD	S	AA	AA
R 0725	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	**
R 0726	VRS-TV1JD562F	2125 5,6KOHM 1% 1/10W SMD	S	AA	AA
R 0727	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
R 0728	VRS-TQ2BD101J	OX RE 100 0HM 5% 1/8W SMD	S	AA	AA
R 0729	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
R 0731	VRS-TV1JD472F	2125 4,7KOHM 1% 1/10W SMD	S	AA	**
R 0732	VRS-TV1JD152J	2125 1.5KOHM 5% 1/10W SMD	S	AA	AA
R 0733	VRS-TV1JD392F	2125 3.9KOHM 1% 1/10W SMD	S	AA	AA
R 0735	VRS-TV1JD392F	2125 3.9KOHM 1% 1/10W SMD	S	AA	AA
R 0737	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	**
R 0738	VRD-RA2HD271J	RES 270 OHM 5% 1/2W	S	AA	**
R 0739	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
R 0740	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
R 0741	VRS-TV1JD334J	2125 330KOHM 5% 1/10W SMD	S	AA	**
R 0742	VRS-TQ2BD124F	RE OX 120KOHM 1% 1/8W SMD	S	AA	**
R 0743	VRS-TQ2BD124F	RE OX 120KOHM 1% 1/8W SMD	S	AA	**

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 0744	VRS-TV1JD392F	2125 3.9KOHM 1% 1/10W SMD	S	AA	AA
	R 0745	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
⚠	R 0746	VRC-UA2HG825K	SOLID R 8,2MOHM 10% 1/2W	S	AA	AA
⚠	R 0747	VRC-UA2HG825K	SOLID R 8,2MOHM 10% 1/2W	S	AA	AA
	R 0748	VRS-TV1JD224J	2125 220KOHM 5% 1/10W SMD	S	AA	**
	R 0749	VRS-TQ2BD684J	OX RE 680KOHM 5% 1/8W SMD	S	AA	**
	R 0750	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0751	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0752	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0753	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
	R 0754	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0755	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0756	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0757	VRS-TV1JD182J	2125 1,8KOHM 5% 1/10W SMD	S	AA	AA
	R 0758	VRS-TV1JD2R7J	2125 2,7 OHM 5% 1/10W SMD	S	AA	**
	R 0759	VRS-TQ2BD561J	OX RE 560 OHM 5% 1/8W SMD	S	AA	**
	R 0760	VRS-TV1JD392J	2125 3.9KOHM 5% 1/10W SMD	S	AA	**
	R 0761	VRS-TQ2BDR68J	OX RE 0,68 OHM 5% 1/8W SMD LRC01	S	AA	**
	R 0765	VRS-TQ2BD823J	OX RE 82KOHM 5% 1/8W SMD	S	AA	**
	R 0766	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	**
	R 0767	VRS-TV1JD471J	2125 470 OHM 5% 1/10W SMD	S	AA	**
	R 0768	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0770	VRS-TQ2BD823J	OX RE 82KOHM 5% 1/8W SMD	S	AA	**
	R 0771	VRS-TQ2BD823J	OX RE 82KOHM 5% 1/8W SMD	S	AA	**
	R 0772	VRS-TQ2BD684J	OX RE 680KOHM 5% 1/8W SMD	S	AA	**
	R 0773	VRS-TQ2BD684J	OX RE 680KOHM 5% 1/8W SMD	S	AA	**
	R 0774	VRS-TQ2BD823J	OX RE 82KOHM 5% 1/8W SMD	S	AA	**
	R 0776	VRS-TV1JD121J	2125 120 OHM 5% 1/10W SMD	S	AA	AA
	R 0777	VRS-TQ2BDR68J	OX RE 0,68 OHM 5% 1/8W SMD LRC01	S	AA	**
	R 0778	VRS-TQ2BD225J	OX RE 2,2MOHM 5% 1/8W SMD	S	AA	**
	R 0779	VRS-TQ2BD225J	OX RE 2,2MOHM 5% 1/8W SMD	S	AA	**
	R 0780	VRS-TQ2BD330J	OX RE 33 OHM 5% 1/8W SMD	S	AA	**
	R 0781	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0782	VRS-TV1JD473J	2125 47KOHM 5% 1/10W SMD	S	AA	AA
	R 0783	VRS-TV1JD224J	2125 220KOHM 5% 1/10W SMD	S	AA	**
	R 0784	VRS-TV1JD183J	2125 18KOHM 5% 1/10W SMD	S	AA	AA
	R 0785	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0786	VRS-TV1JD182J	2125 1,8KOHM 5% 1/10W SMD	S	AA	AA
	R 0787	RR-XZ0214BMZZ	FUS RES 15R TAP 5% 1/2W	S	AA	AB
	R 0788	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0789	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 0790	VRD-RA2HD271J	RES 270 OHM 5% 1/2W	S	AA	**
	R 0791	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0792	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0793	VRS-TV1JD223J	2125 22KOHM 5% 1/10W SMD	S	AA	AA
	R 0794	VRS-TV1JD470J	2125 47 OHM 5% 1/10W SMD	S	AA	**
	R 0795	VRS-TV1JD560J	2125 56 OHM 5% 1/10W SMD	S	AA	**
	R 0798	RR-XZ0215BMZZ	FUS RES 18R TAP 5% 1/2W	S	AA	AB
	R 0799	RR-XZ0200BMZZ	FUS RES 1R0 TAP 5% 1/2W	S	AA	AB
	R 0801	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 0802	VRS-TV1JD122J	2125 1,2KOHM 5% 1/10W SMD	S	AA	AA
	R 0803	VRS-TV1JD271J	2125 270 OHM 5% 1/10W SMD	S	AA	AA
	R 0804	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
	R 1001	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	**
	R 1002	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	**
	R 1003	VRS-TV1JD273J	2125 27KOHM 5% 1/10W SMD	S	AA	**
	R 1004	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA
	R 1006	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1007	VRS-TQ2BD472J	OX RE 4,7KOHM 5% 1/8W SMD	S	AA	**
	R 1008	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1009	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1010	VRS-TV1JD104J	2125 100KOHM 5% 1/10W SMD	S	AA	AA
	R 1011	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
	R 1013	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1014	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1015	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1016	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
	R 1017	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	**
	R 1018	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1020	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1022	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1023	VRS-TV1JD103J	2125 10KOHM 5% 1/10W SMD	S	AA	AA
	R 1024	VRS-TV1JD331J	2125 330 OHM 5% 1/10W SMD	S	AA	**
	R 1025	VRS-TV1JD221J	2125 220 OHM 5% 1/10W SMD	S	AA	AA

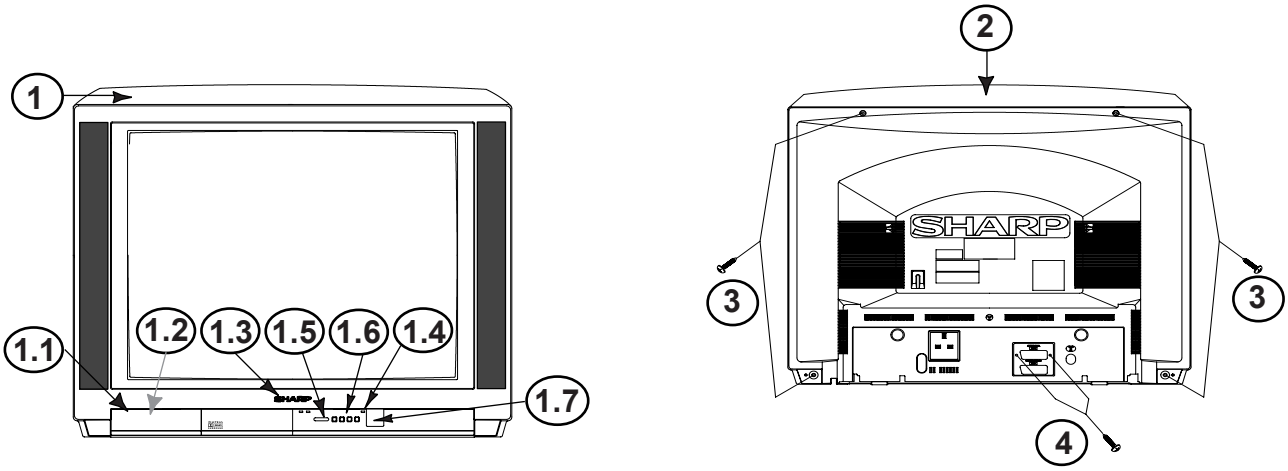
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	R 1026	VRS-TV1JD100J	2125 10 OHM 5% 1/10W SMD	S	AA	**
	R 1030	VRS-TV1JD222F	2125 2,2KOHM 1% 1/10W SMD	S	AA	**
	R 1031	VRS-TV1JD102F	2125 1KOHM 1% 1/10W SMD	S	AA	**
	R 1032	VRS-TV1JD102F	2125 1KOHM 1% 1/10W SMD	S	AA	**
	R 1033	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1034	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
	R 1035	VRS-TV1JD333J	2125 33KOHM 5% 1/10W SMD	S	AA	AA
	R 1036	VRD-RA2BE472J	RES 4,7KOHM 5% 1/8W	S	AA	AA
	R 1037	VRS-TV1JD472J	2125 4.7KOHM 5% 1/10W SMD	S	AA	AA
	R 1039	VRS-TV1JD392J	2125 3.9KOHM 5% 1/10W SMD	S	AA	**
	R 1040	VRS-TV1JD225J	2125 2,2MOHM 5% 1/10W SMD	S	AA	**
	R 1041	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1043	VRS-TV1JD681J	2125 680 OHM 5% 1/10W SMD	S	AA	AA
	R 1099	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
			MISCELLANEOUS PARTS			
	(AV)	QCNW-2891BMZZ	SHILED WIRE 2 WAYS (GROUND PROTECTED)	S	--	--
	(AV1)	QSOCZ2112BMZZ	TWIN SCART CHASSIS GA-10	S	--	--
	(CN4)	QJAKJ0047CEZZ	EARPHONE JACK HSJ0998-72	S	AA	AG
	(F)	QPLGN0505CEZZ	PLUG	S	AA	AB
	(G)	QPLGN0207CEZZ	PLUG	S	AA	**
	(H)	QCNW-2836BMZZ	WIRE (H) 20" 21"	S	AA	**
	(K)	QCNW-2865BMZZ	WIRE (K) 6 WAYS	S	AD	**
	(L2)	QTIPM0017CEFM	TIP	S	AA	AA
	(M)	QPLGN0304CEZZ	PLUG	S	AA	**
	(SP)	QPLGN0441CEZZ	PLUG 4PIN	S	AA	**
	(VAR1)	RH-VX0035BMZZ	VARISTOR 510V/25A PHILIPS	S	AA	AD
	F 0601	VP-CF220K0000	PEAK COIL 22UH 10%	S	AA	AA
	F 0602	VP-CF220K0000	PEAK COIL 22UH 10%	S	AA	AA
⚠	F 0701	QFS-C3226CEZZ	FUSE T3.15AH 250V	S	AC	AE
	F 0702	QFS-J4021CEZZ	FUS. 4,0A/125V LITTELFUSE	S	AC	AE
	F 0703	QFS-J4021CEZZ	FUS. 4,0A/125V LITTELFUSE	S	AC	AE
	F 0704	QFS-J4021CEZZ	FUS. 4,0A/125V LITTELFUSE	S	AC	AE
	FB 0302	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0303	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0401	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0402	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0501	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0603	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0701	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0702	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0703	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	FB 0801	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
	J 0003	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0006	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0007	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0008	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0010	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0011	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0014	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0015	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0021	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0022	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0025	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0026	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0027	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0028	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0029	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0031	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0032	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0033	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0036	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0043	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0046	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0048	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0049	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0050	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0051	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0053	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0054	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0057	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0058	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0060	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0061	VP-DF220K0000	PEAK COIL 22UH 10%	S	AB	AB

REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
J 0063	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0064	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0066	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0069	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0070	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0071	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0072	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0073	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0075	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0076	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0077	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0078	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0079	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0080	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0081	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0084	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0085	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0086	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0087	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0090	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
J 0096	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
J 0101	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0104	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0112	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0119	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0120	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0121	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0123	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0124	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0128	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0129	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0130	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0134	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0141	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0143	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0145	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0146	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0147	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0168	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0174	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0175	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0181	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
J 0185	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0186	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0208	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0209	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0210	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0229	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0239	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
J 0241	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0252	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0254	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0255	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0256	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0258	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0260	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0261	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0264	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0267	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0270	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0271	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0274	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0288	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0291	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0292	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0293	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0294	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0297	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0298	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0299	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0300	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0301	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0302	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0303	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA

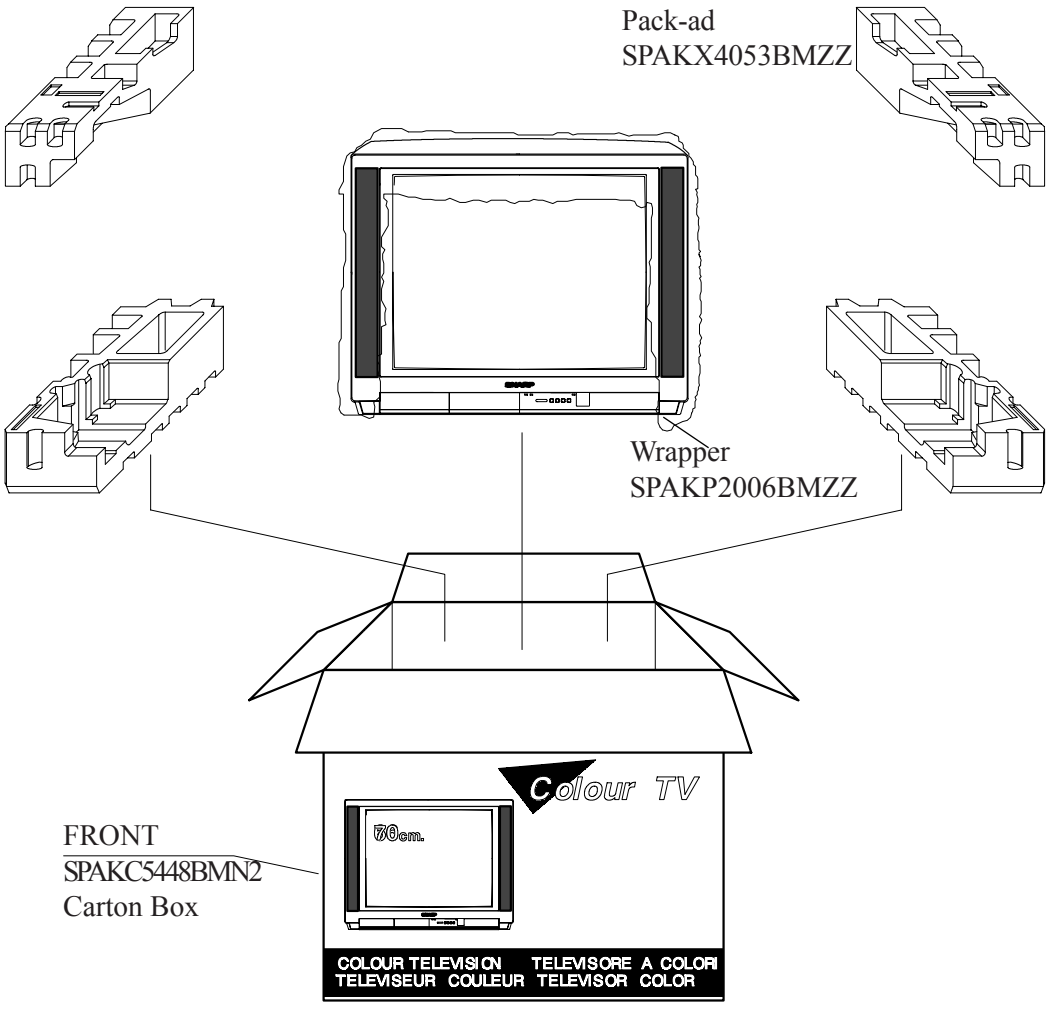
REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
J 0304	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0305	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0306	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0308	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0311	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0312	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0313	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0314	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0315	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0316	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0317	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0318	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0319	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0320	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0323	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0324	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0325	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0327	VRS-TQ2BD000J	3216 0 OHM 5% 1/8W SMD	S	AA	**
J 0329	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
J 0401	QJAKZ0101BMZZ	JACK CONECTOR	S	AC	**
JF 0003	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0004	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0007	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0008	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0009	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0010	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0012	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0017	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0021	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0034	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0043	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0044	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0050	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0066	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0069	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0070	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0072	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0074	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 0701	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
JF 0702	RBLN-0037CEZZ	BALUN FBA04HA90088-00 T/Y	S	AB	AB
JF 1001	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 1004	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JF 1010	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
JL 0012	QCNW-2736BMZZ	WIRE 1 WAY	S	AB	**
JL 0013	QCNW-2736BMZZ	WIRE 1 WAY	S	AB	**
JL 0014	QCNW-2736BMZZ	WIRE 1 WAY	S	AB	**
LP 0701	RLAMP0001BMZZ	NEON TYPE 4/30HB NEOTRONIC	S	AB	AC
M 1000	RRMCU0205BMZZ	R/C RECEIVER TS0P2838 TFK	S	AB	AF
△ S 0701	QSW-P0600BMZZ	SWITCH S40 3110432713 GDE	S	AF	AL
S 0702	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	**
S 0703	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	**
S 0704	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	**
S 0705	QSW-K0079GEZZ	TACTILE SWITCH	S	AA	**
	QSOCZ0115SC32	SOCKET IC 32 PIN	S	AA	AB
PWB-B		**CRT UNIT**			
		INTEGRATED CIRCUITS			
IC 0901	VHITDA6107Q-2	IC AMPL.VIDEO TDA6107Q N2 PHILIPS	S	AD	AL
		TRANSISTORS			
Q 0901	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
Q 0902	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
Q 0903	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
Q 0904	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
Q 0905	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
Q 0906	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
Q 0907	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
Q 0908	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
Q 0909	RH-TX0232BMZZ	TRT BC847B SMD PHILIPS	S	AA	AA
Q 0910	VS2SA1037KQ-1	TRT BC807 SMD	S	AA	AA
		DIODES			
D 0901	RH-DX0501BMZZ	DIODE 1N4004	S	AA	AA
D 0902	RH-EX0545BMZZ	ZENER DIODE TZMC5V1 TFK SMD	S	AA	AA

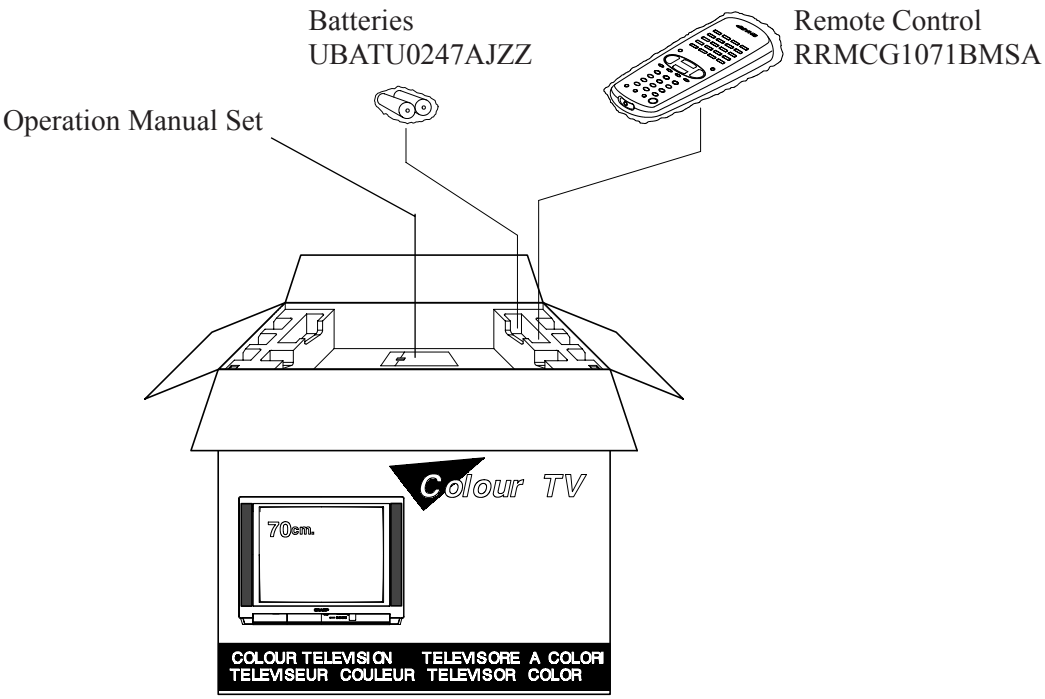
	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
	D 0903	RH-DX0539BMZZ	DIODE BYT52M TFK	S	AA	AC
	D 0904	RH-DX0600BMZZ	DIODE BYG20G TFK SMD	S	AA	AC
	D 0905	RH-DX0600BMZZ	DIODE BYG20G TFK SMD	S	AA	AC
	D 0906	RH-DX0600BMZZ	DIODE BYG20G TFK SMD	S	AA	AC
			CAPACITORS			
	C 0901	VCEAGA2EW106M	ELEC C 10UF 20% 250V	S	AA	**
	C 0902	VCKYPB3DE472Z	C DE1110-1E472Z2K MURATA	S	AA	**
	C 0904	VCEAGA2EW106M	ELEC C 10UF 20% 250V	S	AA	**
	C 0905	RC-FZ6104BMNJ	PP FILM C 0.1UF 5% 250V	S	AA	**
	C 0909	VCEAGA1CW477M	ELEC C 470UF 20% 16V	S	AA	**
	C 0910	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0911	VCKYTV1HF104Z	CERAM C 100NF 50V 2125SMD	S	AA	AA
	C 0912	VCCCTV1HH221J	CERAM C 220PF 50V 2125SMD	S	AA	**
	C 0914	RH-VX0037BMZZ	VARISTOR 2322 593 05207 BC 25V	S	--	--
	C 0915	RH-VX0037BMZZ	VARISTOR 2322 593 05207 BC 25V	S	--	--
	C 0916	VCKYPA2HB222K	CERAM C 2,2NF 10% 500V	S	AA	**
			RESISTORS			
	R 0901	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0902	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0903	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	R 0904	VRD-RA2BE475J	RES 4,7MOHM 5% 1/8W	S	AA	**
	R 0905	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 0906	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S	AA	**
	R 0907	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S	AA	**
	R 0908	VRD-RA2HD272J	RES 2,7KOHM 5% 1/2W	S	AA	**
	R 0909	VRS-TV1JD121J	2125 120 OHM 5% 1/10W SMD	S	AA	AA
	R 0910	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0911	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0912	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
	R 0913	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0914	VRS-TV1JD121J	2125 120 OHM 5% 1/10W SMD	S	AA	AA
	R 0915	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0916	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0917	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
	R 0918	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0919	VRS-TV1JD121J	2125 120 OHM 5% 1/10W SMD	S	AA	AA
	R 0920	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0921	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 0922	VRS-TV1JD222J	2125 2,2KOHM 5% 1/10W SMD	S	AA	**
	R 0923	VRS-TV1JD391J	2125 390 OHM 5% 1/10W SMD	S	AA	AA
	R 0925	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
	R 0926	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
	R 0927	VRS-TV1JD561J	2125 560 OHM 5% 1/10W SMD	S	AA	AA
	R 0931	VRS-TV1JD822J	2125 8,2KOHM 5% 1/10W SMD	S	AA	AA
	R 0932	VRS-TV1JD182J	2125 1,8KOHM 5% 1/10W SMD	S	AA	AA
	R 0933	VRS-TV1JD332J	2125 3.3KOHM 5% 1/10W SMD	S	AA	**
	R 0934	VRS-TQ2BD104J	OX RE 100KOHM 5% 1/8W SMD	S	AA	**
	R 0935	VRS-TQ2BD104J	OX RE 100KOHM 5% 1/8W SMD	S	AA	**
	R 0936	RR-XZ0120BMZZ	FUS RES 47R TAP 5% 1/3W	S	AA	AB
			MISCELLANEOUS PARTS			
⚠	(GND)	QSOCV0103BMZZ	SOCK HPS1521-014408 HOSHI	S	AD	AG
	(L3)	QTIPM0017CEFM	TIP	S	AA	AA
	J 0041	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	J 0042	VRS-TV1JD000J	2125 0 OHM 5% 1/10W SMD	S	AA	AA
	PWB-C		**PTC MODULE**			
			INTEGRATED CIRCUITS			
	IC 0708	RH-FX0111BMZZ	OPTOCOUPLER TLP165J TOSHIBA	S	AB	AE
			TRANSISTORS			
	Q 1701	VHDBTW34F//-1	DIODE BT134W-500 PHILIPS	S	AD	AE
			DIODES			
	D 1701	RH-EX0550BMZZ	ZENER DIODE TZMC8V2 TFK SMD	S	AA	AA
	D 1702	RH-DX0502BMZZ	DIODE 1N4005	S	AB	AA
			PACKAGED CIRCUITS			
	POR1701	RMPTP0001BMZZ	PTC B59250-C1080-B70	S	AA	AD
			CAPACITORS			
	C 1701	VCEAGA1CW477M	ELEC C 470UF 20% 16V	S	AA	**

	REF No.	PARTS	DESCRIPTION	*	SN CODE	EX CODE
			RESISTORS			
	R 1701	RR-XZ0224BMZZ	FUS RES 100R TAP 5% 1/2W	S	AA	AB
	R 1702	VRS-TV1JD101J	2125 100 OHM 5% 1/10W SMD	S	AA	AA
	R 1703	VRS-TV1JD102J	2125 1KOHM 5% 1/10W SMD	S	AA	AA
	R 1704	RR-XZ0120BMZZ	FUS RES 47R TAP 5% 1/3W	S	AA	AB
			MISCELLANEOUS PARTS			
		CLUGP0130BMV0	REGLETA QLUGP0130 CORTADA/PREFOR 1/10	S	--	--
			MISCELLANEOUS PARTS			
		PCAPH1500BMN1	SWITCH COVER	S	AA	**
		RRMCG1071BMSA	R/C CA-10 HOSIDEN	S	AS	AW
		UBATU0247AJZZ	BATTERY R6(X2)	S	AE	AH
		RCORF0002BMZZ	FERRITE CORE TFC-16816EX	S	AF	AK
	(F)	QCNW-2621BMZZ	CON W (4)WAYS	S	AB	AE
⚠		QACCZ2100BMSA	AC CORD	S	AH	AR
		VSP1206PB437A	SPEAKER 7 OHM 12W DAIWA	S	AE	AP
			CABINET PARTS 70GS-62S			
	1	CCABA1307BMV2	CABINET SET 70GS62S	S	AY	**
	1.1	GDORF1066BMSC	DOOR	S	--	--
	1.2	PKAI-1083BM00	DOOR LATCH	S	AC	AF
	1.3	HBDGB3013MESB	BADGE	S	AC	AH
	1.4	HDECQ0037BMSA	POWER LED(70ES-04S)	S	AA	**
	1.5	HDECQ0038BMSA	R/C DECORATION	S	AA	**
	1.6	JBTN-1049BMSC	UP/DOWN BUTTON 21/28" (GREY 045)	S	AA	AC
	1.7	JBTN-1048BMSC	BUTTON 70ES04SBK	S	AA	AD
	1.8	HINDP5104BMSA	IND	S	AA	**
⚠	2	GCABB1116BMKA	REAR CABINET 70GS62SN	S	AR	**
	3	XTASB40P20000	REAR CABINET SCREWS	S	AA	AA
	4	XTBSB30P13000	AV SCREWS	S	AA	AA
			OWNERS MANUAL			
		TINS-6910BMN0	OWNERS MANUAL 70GS62SDE	S	AC	AG
		TINS-7098BMN0	OWNERS MANUAL 70GS62SIT	S	AD	**



PACKING OF THE SET





Q601, Q602 REPLACEMENT NOTES:

When Q601 or Q602 requires to be replaced, please consider the following steps in order to avoid damaging any part.
1. Gently unclamp clip from side to side using a screwdriver to remove, as shown on Fig.1
2. Check that clip is not deformed when replacing. If deformed press inwards as shown on Fig. 2

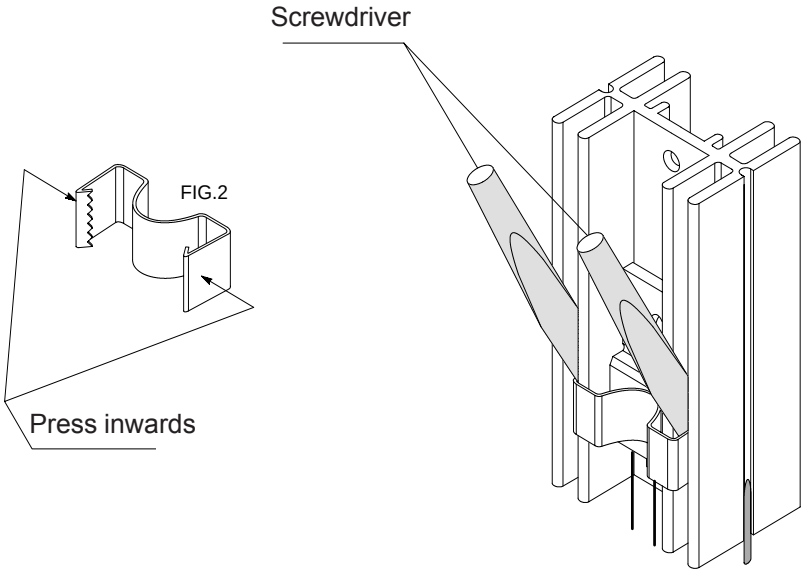


FIG.1

DOCUMENTATION OF SOURCES.

1. TDA 9886, Philips Data Sheet:
TDA9885; TDA9886. I²C-bus controlled single/multistandard alignement-fee IF-PLL. Preliminary specification. File under Integrated Circuits, IC02. 1999 Dec 14.

2. TDA 7480, ST Microelectronics Data Sheet:
TDA7480. 10W Mono Class D Amplifier. 1/10/1998

3. MSP3411G, Micronas Intermetall Data Sheet
Preliminary data sheet: “MSP 34x1G Multistandard Sound Processor Family with Virtual Dolby Surround”, Edition Oct. 15, 1999, 6251-511-1PD. First release of preliminary data sheet.

4. VCT 3832, Micronas Intermetall Data Sheet
Advance Information: “VCT 38xxA Video/Controller/Teletext IC Family”, Edition Oct. 17, 2000, 6251-518-1AL. First release of the advance information.

SHARP®

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of the publisher.

SHARP ELECTRONICA ESPAÑA S.A.
TV Division
Engineering Dept.
Polígono Industrial Can Sant Joan
Sant Cugat del Vallès
Barcelona
Spain

PRINTED BY: ON:

Think Ecology, please use

RECYCLED PAPER